

Sefer Elim (ספר אלים) — Editorial footnotes (draft)

Joseph Solomon Delmedigo (יוסף שלמה דלמדיגו, "Yashar of Candia"), 1591–1655.

Drafted editorial footnotes for review before publication. Each note is keyed to its anchor in the **manuscript-grade complete edition** — the collated output that retains the per-batch/page scaffolding the anchors reference (produced by *ms*). The reading in the main text is **preserved as printed/transcribed** and is not altered by these notes. The note text below is a **draft** — review and edit before publication.

The notes are classified as follows:

- **Category B — source compositor error.** A printing, compositor, or scribal error in the source itself (a wrong letter or digit, a dropped or doubled word, a non-resolving citation). The likely intended reading is noted, but the main text preserves exactly what is printed.
- **Category C — author/source anomaly.** An anomaly originating with the author or the source rather than the typesetting (a factual or geographic slip, a misattribution, an internal inconsistency, or a deliberate but unusual feature). Recorded as written.
- **Missing-source lacuna.** A point where source text is missing, damaged, or illegible. The note states what should stand at the gap and points to an alternate witness where one is known.

#	Anchor	Cat.	Item
1	batch_004	B	On folio XII (p. 16) the catalog of the work's constituent treatises (Sod HaYesod, Chukat Shamayim, etc.) is set twice across the two upper columns, with minor wording variation, rather than continued.
2	batch_005	B	The Amsterdam-arrival chronogram on folio XVI prints בשנת הספ"ה, which as bare gematria (ה'ספ"ה) yields 5145 AM (1385 CE) — chronologically impossible for Delmedigo (b. ~1591).
3	batch_006	B	The Roman folio numeral is printed "IXX" (p. 23), a metathesis for "XIX" — confirmed by

#	Anchor	Cat.	Item
			its position between folios XVIII and XX.
4	batch_011	C	At p. 44 the title-etymology prints לשאול שבעים ("to ask seventy") while the structural count of principal questions is explicitly twelve (היב' עינות / כמספר שבטי יה).
5	batch_016	B	The chord of arc 60° is given as 86602 at first occurrence but reprinted 86902 at its second occurrence (p. 62/folio 32).
6	batch_016	B	The third question's enlarged initial is printed (2=) ב, duplicating the second question's initial, where the sequence expects (3=) ג.
7	batch_017	C	Delmedigo calls the parallel postulate the "thirteenth" (ג', q.36) inclusive common notion, where Euclid has it as the 5th Postulate (11th axiom in some recensions).
8	batch_018	B	p. 72 prints התלמודים ("the Talmuds") where context (a method "for the mathematical sciences") requires הלמודים (the limudim / mathematical sciences).
9	batch_024	B	p. 95 (שאלה ה) prints "equals the number 4, which is the square of 92," but $92^2 = 8464$, not 4.
10	batch_024	B	p. 94 (שאלה ד) writes the right-hand side of the quartic both as "the square of 48" and as "48," and the subsequent working uses 1755 rather than $48^2 = 2304$.
11	batch_024	B	The side-label "זזה" at the close of שאלה ד ("side זזה is 6") appears to be a misprint for the leg being solved, "אב."
12	batch_025	B	p. 98 division table prints row "198 4" but $672 \div 4 = 168$, not 198.
13	batch_025	B	p. 100 prints "שמעוקבו 1 27" — a value of 1 cannot have cube 27; recte 3 ($3^3 = 27$).
14	batch_025	B	p. 98 figure caption "דמיון ר" is a compositor

#	Anchor	Cat.	Item
			error for "דמיון ד" (Fourth illustration) — ד set as ר.
15	batch_026	B	p. 104 prints "לכתוב 35 אותיות על כל אות חמש" ("write 35 letters for each letter, five [each]"), contradicting the stated five-per-letter scheme and the 5-symbol codes tabulated.
16	batch_030	B	p. 88 (PDF 118) prints "שני קנינים הנ"ל" ("the two aforementioned acquisitions") where the passage names three (ידיעה/מחשבה/אמונה) and continues "אכן" ("so there are three acquisitions").
17	batch_032	B	p. 125 chord-of-quadrant statement prints "its measure being 20 degrees" (כ' מעלות), inconsistent with the surrounding 120/60 chord convention.
18	batch_037	B	The eighth essay's heading is set "מאמר הה'" ("the fifth") where it must be the eighth — it follows essay seven (Lechem Abirim), precedes essay nine (Mekor Binah), and treats alchemy.
19	batch_038	B	Figure caption "ציור ו'" appears twice on the plate (p. 151) — for the inscribed-rectangle figure and again for the lower-left 6-8-10 triangle — where the sequence א-י has no second ו'.
20	batch_038	C	The colophon dates the writing to שפ"א (1621 = 5381 while the completion chronogram reads (1629 = 5389) ה'ש"פט.
21	batch_039	C	The title page reads (1865) תרכ"ה while the work is commonly catalogued as Odessa 1864.
22	batch_042	B	A Euclid citation (p. 166) reads "lesson 23 ... of the Fifth of his Elements" for the compounded ratio, but the compounded-ratio proposition is Euclid VI.23, not V.23.

#	Anchor	Cat.	Item
23	batch_042	lacuna	The two figures named in the text ("ציור א", "ציור ב") on p. 166 are not printed within these pages — a structural gap.
24	batch_043	B	p. 139 introduces a worked example as "במשלש אבה" while the triangle is consistently "אבג" thereafter — the ה in אבה is a compositor setting for ג.
25	batch_043	B	p. 141 problem-13 rubric prints "יג השטח" (without the nun) where the term is consistently "הנשטח" (the hypotenuse) elsewhere.
26	batch_047	B	At p. 157 a doubling step prints "we double 1558 by 10, and it becomes 155480," but $1558 \times 10 = 15580$.
27	batch_047	B	The p. 157 working carries sexagesimal arcs with minutes/seconds exceeding 59 ($8^{\circ}67'$, $53^{\circ}72'$, $59^{\circ}61'$).
28	batch_048	B	At p. 192, definition יג cites "הקש י"א לחמשי" ("proposition 11 of the Fifth") for the angle:angle :: arc:arc proportion, which is Euclid VI.33; Book V has no such proposition.
29	batch_049	B	At p. 196 (lemma 20) the cross-reference "lemma 51 of the Fifth" (נא לחמשי) cites a proposition number far beyond Euclid Book V's range.
30	batch_050	C	At p. 197 two consecutive lemmas both bear the siglum (26) כו; no (27) כז appears and the sequence resumes at (28) כח, so every following lemma's printed number trails its logical count by one.
31	batch_050	B	Lemma 36 (לו) cites "בששי לראשון" ("in the Sixth of the First") for the result that an equiangular figure is equilateral; the intended reference is Elements I.6.
32	batch_051	C	At p. 172 the siglum (52) נב heads two

#	Anchor	Cat.	Item
			consecutive lemmas, and both follow the already-printed (53) נג on p. 171, leaving the sequence disordered (53 before 52, 52).
33	batch_052	C	At p. 206 'Ali ibn Riḍwan is reported asserting a triangle with angles 150° , 140° , 50° (sum 340°), whose polar triangle sums to only 120° .
34	batch_053	B	At p. 181 the label פמ is applied to both the greater and the lesser side of the transformed triangle ("הצלע הגדול פמ" and "שעור הצלע הקטן פמ").
35	batch_055	B	At p. 220 the rubric for the sixteenth and final row reads "הטור הי"ן" with an apparent nun-final, where the declared 16-row count ("ובו י"ו טורים") and the "two angles" content require Row 16.
36	batch_056	B	At p. 221 the Row-5 rubric omits its ordinal (5) ה', printing only the bare row marker between Row 4 (הד') and Row 6 (הו').
37	batch_056	C	The author's own "doubtful" (מסופק) approximation fractions in the Helping/Precious-Stone tables (batches 56–58) are tagged by the author as approximate.
38	batch_059	B	The same right-triangle ratio theorem is cited as "Lesson 31" (ל"א, p. 205) and "Lesson 21" (כ"א, p. 206) of the Second Corner — a divergence of ten consistent with a $\frac{7}{10}$ misset.
39	batch_059	B	At p. 206 the side-ratio table prints the α -column tangent as 56712 (upper) and 57712 (lower) for the same triangle.
40	batch_060	B	At p. 240 the running header reads "הפנה השלישית" (Third Corner) while the body belongs to the Fourth Corner's Second Stone.
41	batch_062	C	Figure 10 is captioned with the spelled-out יוד where neighboring figures use letter-

#	Anchor	Cat.	Item
			numerals (11=יא, 9=ט); the series runs continuously 1–30.
42	batch_063	C	The title page dates the first edition ט"ש (5389 AM = 1628/29) and the Odessa reprint תרכ"ז (5627 AM = 1866/67), consistent with the censor's "1866."
43	batch_064	C	At p. 223 the figure for Proposition 1 uses Latin letters (A, B, D, F) for point-labels and the multiplier, interleaved with Hebrew, whereas pp. 224–226 use Hebrew letters throughout.
44	batch_064	B	The product $\frac{1}{2} \cdot \frac{1}{4}$ is printed as $\frac{1}{6}$ where it should be $\frac{1}{8}$.
45	batch_066	B	At p. 262, "we subtract it from 3662 and 71 remain," but $2663 - 2592 = 71$, confirming the intended value is 2663.
46	batch_066	C	At p. 262 the second Preliminary is captioned as Delmedigo's second but Ptolemy's third ("והיא שלישית לבטלמיוס").
47	batch_071	C	Between p. 281 and p. 283 no "Chapter 4" (פרק ד) rubric appears, although the surrounding problems are grouped under Chapters 2, 3, and 5.
48	batch_071	B	The Almagest Book II tables carry register-overflow numerals (5000115 recte 5000000; 86602543; 946923000).
49	batch_072	C	At p. 288 the Chapter-12 sun's-altitude problem opens without the expected "Problem 16" heading; the page-foot rubric reads "שאלה י"ז" (Problem 17).
50	batch_072	C	At p. 288 the chapter sequence jumps from Chapter 7 to Chapter 9 of Book II, omitting Chapter 8.
51	batch_074	B	The Sirius right ascension, established as $97^{\circ}12'$ (Problem 20), is printed $97^{\circ}21'$ on p. 267 where it is added to the inclination, and

#	Anchor	Cat.	Item
			the worked example shows an internally inconsistent arc figure.
52	batch_075	B	At p. 268 the Candia oblique-ascension table gives latitude $85^{\circ}15'$, but Candia is at $\sim 35^{\circ}15'$ (established p. 267).
53	batch_078	B	At p. 312, "מעלות של משה ר"ל שעה אחת 5" equates 5° of the equator with one hour, but one equatorial hour is 15° .
54	batch_078	B	At p. 309 Regiomontanus appears as "ריניאומון טאנו", a compositor garble substituting a nun for the gimel of the established "ריגיומונטאנו".
55	batch_079	B	At pp. 313–314 the result π is printed $24^{\circ}12'$, yet the surrounding subtraction and the $167^{\circ}36'$ ecliptic remainder are consistent with $\approx 24^{\circ}24'$.
56	batch_080	B	In the gazetteer at pp. 289–290, Trento is given latitude $32^{\circ}30'$ (true $\sim 46^{\circ}\text{N}$) and a probable Reggio entry $59^{\circ}15'$ (impossibly high for an Italian city); Moscow appears as $61^{\circ}15'$ and Aleppo with minutes 73.
57	batch_080	C	At p. 290 the colophon closes Chukat Shamayim, the Problem sequence having run cleanly $51 \rightarrow 52 \rightarrow 53$.
58	batch_081	C	At p. 294 a fresh treatise opens titled "גבורות" (Gevurat Yah, the divine name written "י") and restarts its internal sequence as "Degree" (מדרגה).
59	batch_081	B	At p. 294, Degree 2 item א prints "ערך 4 אל 1" ("כפול לערך 4 אל 1" ("the ratio of 4 to 1 is the duplicate of the ratio of 4 to 1"); the duplicate ratio of 4:1 is $(2:1)^2$, so the second pair should read 2 to 1.
60	batch_082	B	At p. 325, Rule n states the diameter is $3\frac{1}{7}$ of the circumference, inverting the Archimedean relation (the circumference is

#	Anchor	Cat.	Item
			3 $\frac{1}{7}$ times the diameter).
61	batch_082	B	At p. 326, Rule יג gives the bounding ratio as "27 7 ל א" (27 to 7), whereas the rest of the Degree uses the standard 22:7 Archimedean bound.
62	batch_083	C	The Degree headings run anomalously ה"ח(8)→ה(5)→ו(6): "מדרגה ה" appears mid-p. 331 after Degree 8 closed on p. 329, and p. 332 is headed "מדרגה ו" (Degree 6), with prose continuity unbroken.
63	batch_084	B	In Degree 9 the text says half the earth's diameter is reckoned as nothing "as we explained in Degree 4" (במדרגה ד'), but the parallax/distance material was developed in Degree 6/7.
64	batch_085	B	The Copernican relative-size figures on p. 340 (e.g. the Sun as 162× the Earth) are introduced by "פחות" (less), where the physics requires the comparative "greater."
65	batch_085	B	The dioptra-diameter attribution on p. 337 ("with his dioptra... that excellent man whose books we lack") historically fits Aristarchus, yet the printed letters give איפרכוס (Hipparchus), whom Delmedigo names separately two lines later.
66	batch_086	B	The p. 344 prose gives Ptolemy's solar eccentricity as 2;30, but the p. 343 table gives 2 1/10 (60-scale 44;2).
67	batch_087	B	In the p. 317 table the Sun-row (שמש) carries an intrusive repeated label "ירח" (Moon) before the value 187.
68	batch_087	B	In Degree 16 the planet named alongside the Moon as the only "perceptible" planet investigated by Ptolemy/Copernicus reads שבש (Mercury) but could be a misread of שבת (Saturn).

#	Anchor	Cat.	Item
69	batch_089	B	At p. 323 the text cites "Degree 18" for the Moon:Earth diameter ratio, but the content was treated in Degree 12 (י"ב).
70	batch_090	C	At p. 357 "מדרגה כ"ב" (Degree 22) is reprinted to introduce the Mercury sub-section although Degree 22 (Venus) was already in progress, and the next heading is "מדרגה כ"ד" (Degree 24) with no Degree 23 visible.
71	batch_091	B	At the close of Degree 25 the Earth's circumference is printed "21600 stadia," far too small against the Eratosthenes result just established (225,000 stadia).
72	batch_091	B	Both geometric figures, on p. 331 and p. 333, are captioned "ציור נא" (Figure 51) though they depict distinct constructions.
73	batch_091	B	The cross-references on pp. 333–334 cite "מדרגה ב'" (Degree 2) for the diameter↔ circumference relation, but the context expects an earlier Degree in the 20s.
74	batch_092	B	In the depth-of-a-parsa argument the printed subscript fractions $\frac{1}{8000}$ and $\frac{1}{8}$ do not reconcile with the explicit "one part in a thousand" stated in the same sentence for the half-parsa case.
75	batch_093	B	The subscript element-stack under $\frac{1}{100/1900/10}$ reads 1 / 100 / 1900 / 10, internally corrupt against the geometric 1:10□1000 progression the prose argues.
76	batch_093	B	The value 3623 רם is presented as the residual of 3579 רן minus a segment, but a subtraction cannot yield a larger result.
77	batch_094	B	At p. 376 (Degree 36) the source reads that the beam revolves "40" times until the 60-tooth wheel turns once, but $60 \div 6 = 10$; the parallel passage above correctly gives $48 \div 6 =$

#	Anchor	Cat.	Item
			8.
78	batch_094	B	Premise 4 (p. 375) states a weight of "40 litra at point $\aleph$ " raising 50 litra at point $\beth$, but the stated 1:5 ratio requires 10 litra (consistent with "10 at point $\aleph$ " two lines later).
79	batch_095	B	Row 11 of the Table of Sines (p. 380) prints Sine = 10081, impossible since it must lie between 17365 (10°) and 20791 (12°); the correct value is ≈ 19081 .
80	batch_096	B	At p. 384 (fol. 354) the sine of 60° is printed 86602; the standard value at $R = 100000$ is 86603.
81	batch_097	B	At p. 387 the $\aleph\aleph$ total row prints 25129, but its constituents sum to 15129, and the worked number "1.51.29" ($\sqrt{} = 123$) confirms 15129.
82	batch_097	B	At p. 385 (§ה) the Euclid reference "propositions 6 and 8 of Book I" does not match the SAS/base-angle theorems described (standard references I.4, with I.24/I.25 for the inequality).
83	batch_097	B	The §ו example citing Euclid VII.16 prints "multiply 1... generates 1... 3 by 1 generates 4, so $3=4$," internally garbled.
84	batch_098	B	The surd identity is printed "subtract from $\sqrt{50}$ the root of 6, $\sqrt{18}$ remains"; the correct identity is $\sqrt{50} - \sqrt{8} = \sqrt{18}$.
85	batch_100	C	The half-year present-value is given two ways — $3\ 76/108$ (from "104 gives 100") and $3\ 88/104$ — with the denominator shifting $108 \rightarrow 104$ mid-derivation; Delmedigo himself flags these as mutually incompatible.
86	batch_101	C	Two distinct items (the conjuring paragraph and the "why count to ten" item) both fall under (22) $\beth$ on the pp. 371–372 spread, with the next clean letter (23) $\aleph$ on p. 374.

#	Anchor	Cat.	Item
87	batch_102	B	On p. 408 a cross-reference prints "לראשון" (to Book I) in a context that arithmetically belongs to the Tenth Book of the Elements (the neighboring citation is X.116).
88	batch_105	B	In the cube-root weighing example "up to 27 you need 9 or 8," the base-3 weight system requires "9 or 3" ($3^3=27$), paralleling the "up to $8 \rightarrow 2$ or 4" and "up to $125 \rightarrow 5$ or 25" rows.
89	batch_106	B	The paradox-of-the-wheel analogy states that two movers each lifting 50 litra together lift "one hundred fifty" ($150 = 100 + 50$), but $2 \times 50 = 100$ (the text says "two together").
90	batch_107	B	The Jerusalem-latitude value prints "31:80" ($31^\circ 80'$), impossible since minutes cannot reach 80; the same page gives the latitude as $31^\circ 30'$ twice elsewhere.
91	batch_109	B	The p. 433 running header prints "מעין החום" (Ma'ayan ha-Chum) where the body and the p. 435 header give "מעין חתום" (Ma'ayan Chatum).
92	batch_109	B	On p. 433 Aristotle's resonance questions are cited as "הכ"ד והמ"ג" (the 24th and 43rd) of the Problemata, while the diapason-ratio question is cited as "שאלה 35" (Problem 35).
93	batch_110	B	The silver/gold war-mirrors passage is cited to Pliny "Book 15, chapter 33" (במאמר ט"ו פרק ל"ג), but Pliny's mirror material is in Naturalis Historia Book 33.
94	batch_110	B	The multiple-mirror passage is cited to Seneca Naturales Quaestiones "Book 1, ch. 13" (מאמר א' פרק י"ג), but the relevant passage is N.Q. I.17.
95	batch_110	B	In the Euclid three-mirror description (p. 410) the text prints "שלפניך" (before you) where the sense requires "שלאחוריך" (behind you), confirmed by the following clause "the

#	Anchor	Cat.	Item
			eye gazes upon what is behind it."
96	batch_112	B	The solar year's excess over 365 days is printed "ח' שעות 49 דקים" (8 hours 49 minutes), but the expected surplus is ~5 h 49 m.
97	batch_112	B	Two consecutive sections (pp. 447–448) both carry the siglum (52) נב — the alarm/bell-device section and the pole-star-circle section — with the following section correctly (53) נג.
98	batch_112	B	The §49 bold lead-word reads "אוית" where context wants "ראוי" ("it is fitting/proper to know...").
99	batch_113	B	The p. 450 body heading reads "נה ראית" where context wants "ראיה" ("a proof") — a final ת/ה confusion.
100	batch_113	C	The paradox sigla skip from (55) נה directly to (57) נו, omitting (56) נז; the gap remains unresolved through batches 114–116 (58, 59, 60 run smoothly).
101	batch_114	B	In the IX.11 continued-proportion margin column the value 846 (תתמ"ו) breaks the ×6 geometric series of the surrounding terms (...36, 216, 1296...).
102	batch_116	B	The three-city example gives the southern city as "41 דרומית," but the symmetry of the worked half-day arcs (north 7.30 vs. south 4.30, ±1.30 about 6h) requires latitude 44° south.
103	batch_117	C	In §65 Cleomedes's apportioning states the third-month change as "⅓" of the difference, but the worked 6-hour example yields ½ hour in the third month = 1/12 of the difference.

1. batch_004 — *Category B — source compositor error*

A compositor parallel/doubled setting, not two distinct lists; both columns are transcribed as printed.

2. batch_005 — *Category B — source compositor error*

The historically expected arrival (~1625 CE) corresponds to ה'שפ"ה (5385 AM), so the printed ס is most plausibly a worn ש. Preserved as printed, not silently emended to 5385.

3. batch_006 — *Category B — source compositor error*

A compositor transposition of the numeral letters.

4. batch_011 — *Category C — author/source anomaly*

The "seventy" tracks the seventy date-palms of Exodus 15:27 (the secondary ספקות) against the twelve springs (the principal עינות) — a deliberate textual feature, not an error, though שבעים could alternatively read שבעה. Annotated so the two counts are read correctly.

5. batch_016 — *Category B — source compositor error*

Verified at native resolution (not an OCR artifact); the second occurrence is a compositor error for 86602. Preserved as printed with [recte: 86602].

6. batch_016 — *Category B — source compositor error*

A local compositor doubling of ב; subsequent questions resume correctly (ד, ה, , ...), so downstream numbering is unaffected.

7. batch_017 — *Category C — author/source anomaly*

This is the author's own numbering scheme for the common notions, not a misread or a standard Euclidean reference; flagged for a reviewer collating against Euclid.

8. batch_018 — *Category B — source compositor error*

Compositor insertion of ת; the intended sense is rendered with [recte: הלמודים].

9. batch_024 — *Category B — source compositor error*

The printed "4" is a truncation/misprint; 8464 appears elsewhere in the working. An arithmetic impossibility on the face of the text.

10. batch_024 — *Category B — source compositor error*

An internal contradiction in the printed algebra, likely compositor confusion; flagged so a reviewer does not attribute it to the translation.

11. batch_024 — *Category B — source compositor error*

הז ("and this") is not a triangle-vertex label; context requires the side בּא. Rendered as printed with note.

12. batch_025 — *Category B — source compositor error*

An arithmetic misprint; the table's other rows (336·2, 84·8, 56·12, 48·14) are consistent. Likely 168 intended.

13. batch_025 — *Category B — source compositor error*

A dropped digit: the worked cubic requires 3 ($3^3 = 27$, $3 \cdot 40 = 120$, sum 147). Preserved as printed and flagged.

14. batch_025 — *Category B — source compositor error*

Confirmed by the illustration sequence; a print error, not a textual feature.

15. batch_026 — *Category B — source compositor error*

The "35" contradicts "five per letter" and the tabulated codes; likely a compositor error (for 5/ה). An internal numerical contradiction in the cipher description.

16. batch_030 — *Category B — source compositor error*

The internal contradiction marks שן' as almost certainly a compositor error for שן' (three). Rendered as printed with [recte: three].

17. batch_032 — *Category B — source compositor error*

The chord of a quadrant is ≈ 84.85 (120-diameter) or 60 (half-diameter); the printed "20" fits neither, suggesting a compositor error or misread numeral. Flagged for a reviewer checking the trigonometry.

18. batch_037 — *Category B — source compositor error*

Almost certainly a compositor misprint of (8) ה as (5) ה. Rendered "eighth" per content with the printed form noted.

19. batch_038 — *Category B — source compositor error*

A compositor doubling of *l* in the figure lettering; the lower figure's intended index is uncertain. Flagged for plate-numbering review.

20. batch_038 — *Category C — author/source anomaly*

Two distinct dates — the authorial colophon (1621) and the printing/completion chronogram (1629), both recorded verbatim. Not a contradiction once distinguished, but annotated so they are not read as conflicting attestations of one event.

21. batch_039 — *Category C — author/source anomaly*

An imprint-year/catalogue-year divergence (5625 AM = 1865 vs. the standard 1864 attribution); part of the volume's five-imprint date trail (1864–1868), worth noting for bibliographic collation.

22. batch_042 — *Category B — source compositor error*

The text says "fifth" (חמש) where the proposition is in Book VI; likely a source slip or a mis-set "sixth." Transcribed as printed; intended reference Elements VI.23.

23. batch_042 — *Missing-source lacuna*

The referenced figures are cited but absent from the letterpress pages, leaving the geometric argument without its diagrams. Flagged for figure-plate recovery.

24. batch_043 — *Category B — source compositor error*

The vertex label contradicts the triangle $\alpha\beta\gamma$ used throughout (angle γ the right angle, side read α the hypotenuse). Rendered $\alpha\beta\gamma$ with [recte]; a print error.

25. batch_043 — *Category B — source compositor error*

Compositor omission of the nun; rendered with [recte: הנשטח]. A dropped-letter error affecting a technical term.

26. batch_047 — *Category B — source compositor error*

The printed form carries an extra interior digit; the intended value is 15580. (Confirmed Cat-B in the reconciliation report.)

27. batch_047 — *Category B — source compositor error*

Part of the source's systematic minutes/seconds-over-59 typographic feature in the trig sections; transcribed as printed with [recte:].

28. batch_048 — *Category B — source compositor error*

Likely a compositor slip (Fifth for Sixth, plus a misread proposition letter). Part of the work's recurring garbled-Euclid-numbering pattern.

29. batch_049 — *Category B — source compositor error*

Likely a compositor slip for a lower proposition; part of the recurring non-standard Euclid numbering.

30. batch_050 — *Category C — author/source anomaly*

A compositor doubling that perturbs the lemma sequence; the second כו (the extended-side exterior/interior-angle theorem citing Elements I.32) should be כז.

31. batch_050 — *Category B — source compositor error*

The citation conflates the book and proposition numbers.

32. batch_051 — *Category C — author/source anomaly*

A probable compositor doubling/misplacement; the surrounding sequence (54/טז 58/ח →) is otherwise clean.

33. batch_052 — *Category C — author/source anomaly*

The deliberately impossible triangle is the rhetorical centerpiece of the anecdote, an intentional textual feature rather than a compositor error. (Confirmed Cat-C in the report.)

34. batch_053 — *Category B — source compositor error*

The lesser side should read פט (matching the table's טט/פט rows); a probable compositor doubling of the label.

35. batch_055 — *Category B — source compositor error*

The ך of ה"י appears miscut as a nun-final ך; a compositor typesetting error.

36. batch_056 — *Category B — source compositor error*

A compositor omission; the intended reading is Row 5.

37. batch_056 — *Category C — author/source anomaly*

Author-flagged approximations, not transcription error; kept as printed.

38. batch_059 — *Category B — source compositor error*

One of the two is a compositor error; the reviewer should verify against the Second Corner's lesson count.

39. batch_059 — *Category B — source compositor error*

$\tan 80^\circ \approx 5.671$ favors 56712 as intended; the 57712 is a likely compositor misprint.

40. batch_060 — *Category B — source compositor error*

A stale running header (recurrent in this printing); the body is authoritative.

41. batch_062 — *Category C — author/source anomaly*

A typographic spelling variant rather than a numbering anomaly; recorded so a reviewer does not mistake it for a break.

42. batch_063 — *Category C — author/source anomaly*

Both gematria sums verify; no anomaly — recorded for the edition's date trail (part of the five-imprint front matter).

43. batch_064 — *Category C — author/source anomaly*

A compositor/typographic feature of this edition (Latin sorts available only for the p. 223 figure); recorded so it is not read as a transcription error.

44. batch_064 — *Category B — source compositor error*

Confirmed Cat-B in the discrepancy list (b064 $\frac{1}{2} \cdot \frac{1}{4} = \frac{1}{8}$ recte $\frac{1}{8}$); a compositor fraction error.

45. batch_066 — *Category B — source compositor error*

The printed "3662" is a compositor digit-transposition of 2663. (Confirmed Cat-B in the report.)

46. batch_066 — *Category C — author/source anomaly*

A deliberate dual-numbering convention aligning the author's count to Ptolemy's, not an error.

47. batch_071 — *Category C — author/source anomaly*

Either a compositor omission of the intermediate heading or Delmedigo's intentional grouping of Problems 7–11; recorded as a structural gap.

48. batch_071 — *Category B — source compositor error*

Dropped/added-digit numerals in the dense tables, transcribed as printed with [recte:] where recoverable.

49. batch_072 — *Category C — author/source anomaly*

Either Problem 16 is omitted or the chapter-12 problem is mis-numbered 17; batch 073 confirms the sequence resumes cleanly 16→17→18, so the gap is local to this excerpting seam.

50. batch_072 — *Category C — author/source anomaly*

Consistent with the work's selective "מפרק" excerpting (cf. the Chapter-4 gap in batch 071); a structural feature of the abridgment, not an error.

51. batch_074 — *Category B — source compositor error*

Recurring compositor digit-transposition (12↔21) around the Sirius figures; intended 97°12'.

52. batch_075 — *Category B — source compositor error*

The intended reading is 35°15'; the leading "8" is a misprint/misread of (35=) 7.

53. batch_078 — *Category B — source compositor error*

A confirmed compositor misprint, probably a dropped yod turning (15) ט"ו into ה (5).

54. batch_078 — *Category B — source compositor error*

A misprint of the name, recorded for the reviewer.

55. batch_079 — *Category B — source compositor error*

A probable compositor digit-swap (12 for 24); intended value 24°24'.

56. batch_080 — *Category B — source compositor error*

Likely compositor misprints/misorderings of the figure pairs; recorded for coordinate verification. Part of the work's geographically impossible gazetteer-latitude class.

57. batch_080 — *Category C — author/source anomaly*

Recorded as a section boundary so the reviewer registers the treatise's end here.

58. batch_081 — *Category C — author/source anomaly*

The title diverges from the anticipated "Gevurat HaShem" (corrected in the glossary at Stage 4.5); recorded as the source's actual title form and a section-unit switch. The author also separately cites a self-authored Sefer Gevurot HaShem — keep distinct.

59. batch_081 — *Category B — source compositor error*

A probable compositor omission of the (2) ב; the intended reading is "the duplicate of the ratio of 2 to 1."

60. batch_082 — *Category B — source compositor error*

A compositor or authorial slip swapping diameter and circumference.

61. batch_082 — *Category B — source compositor error*

A likely compositor misprint of 22 as 27; intended ratio 22 to 7.

62. batch_083 — *Category C — author/source anomaly*

A compositor numbering error in the Degree sequence (cf. the report's Cat-C note on Gevurat-Yah Degrees 5/6/8); printed as-is.

63. batch_084 — *Category B — source compositor error*

Likely a compositor ו/ט confusion for ו' (Degree 6).

64. batch_085 — *Category B — source compositor error*

A textual/compositor slip; the intended sense is "greater."

65. batch_085 — *Category B — source compositor error*

Possible source misattribution; transcribed per the printed letters.

66. batch_086 — *Category B — source compositor error*

The two figures reflect a genuine difference between the authorities/systems cited and are retained verbatim, not harmonized.

67. batch_087 — *Category B — source compositor error*

A probable compositor intrusion of the adjacent body-label; transcribed as printed.

68. batch_087 — *Category B — source compositor error*

Mercury is the more probable referent (Ptolemy closely modeled Mercury); printed as שַׁבֵּשׁ.

69. batch_089 — *Category B — source compositor error*

A likely compositor misprint of the cross-reference numeral; intended reading Degree 12.

70. batch_090 — *Category C — author/source anomaly*

Either Degree 23 fell outside the batch or the Mercury material is Degree 23 mislabeled "כ"ב" — a structural numbering anomaly in the source's own sequence.

71. batch_091 — *Category B — source compositor error*

21,600 is the miles-circumference figure that recurs in Degree 29; a misplaced/corrupt figure, likely the compositor's substitution of the Degree-29 mileage value.

72. batch_091 — *Category B — source compositor error*

A probable compositor duplication of the figure number, which would throw the running figure-count off by one thereafter; printed as-is.

73. batch_091 — *Category B — source compositor error*

A possible compositor numeral error in the cross-reference.

74. batch_092 — *Category B — source compositor error*

At least one subscript is a corrupt/degraded print figure; both transcribed as printed.

75. batch_093 — *Category B — source compositor error*

A source print error; intended ratio supplied inline.

76. batch_093 — *Category B — source compositor error*

Likely a mis-set figure — possibly 3579 + 44 (the +44-mile vapor height) mislabeled as a remainder; printed as-is and flagged.

77. batch_094 — *Category B — source compositor error*

Printed "40" is a compositor error for 10.

78. batch_094 — *Category B — source compositor error*

Likely a compositor error (40 for 10).

79. batch_095 — *Category B — source compositor error*

The leading "1" was set for "9"; a compositor typesetting error.

80. batch_096 — *Category B — source compositor error*

A compositor off-by-one (or rounding of $\sqrt{3/2} \cdot 10^5$); printed as-is.

81. batch_097 — *Category B — source compositor error*

The leading "2" is a compositor misread for "1." (Confirmed Cat-B in the report.)

82. batch_097 — *Category B — source compositor error*

Possibly a compositor error or Delmedigo's own (perhaps Hebrew-edition) numbering; transcribed as printed.

83. batch_097 — *Category B — source compositor error*

The proposition concerns commutativity of product ($a \cdot b = b \cdot a$); the small integers are a corrupt compositor rendering.

84. batch_098 — *Category B — source compositor error*

A probable compositor error (6 for 8), recoverable. (Distinct from the five false [recte:] over-corrections retired at Stage 4.5.)

85. batch_100 — *Category C — author/source anomaly*

The incompatibility is the point of the paradox, an internal authorial crux rather than a transcription error.

86. batch_101 — *Category C — author/source anomaly*

A compositor doubling of כ"ב (or a missing ג"כ between them); the surrounding sequence is otherwise clean. (Cf. the report's Cat-C note on the doubled Tamarot ב"כ.)

87. batch_102 — *Category B — source compositor error*

A likely compositor error; intended "of the Tenth."

88. batch_105 — *Category B — source compositor error*

The "8" is almost certainly a compositor substitution of $(8)_n$ for $(3)_n$.

89. batch_106 — *Category B — source compositor error*

Printed ן"ז is a likely compositor error for (100) 'ז, absent a rhetorical "more than the sum" reading.

90. batch_107 — *Category B — source compositor error*

A compositor error for 31° 30'. Part of the source's minutes-over-59 class.

91. batch_109 — *Category B — source compositor error*

A compositor ח/ח swap dropping the tav; the correct title is Ma'ayan Chatum, and the error recurs (batches 110, 113). Recorded verbatim, not corrected.

92. batch_109 — *Category B — source compositor error*

Three differing problem-numbers in close proximity, likely reflecting different sections of Problems XIX; transcribed as printed for the reviewer to verify.

93. batch_110 — *Category B — source compositor error*

Likely a compositor swap of ג"ל ↔ ט"ו (or a source slip); intended Book 33.

94. batch_110 — *Category B — source compositor error*

A possible compositor/source error; intended chapter 17 (low confidence).

95. batch_110 — *Category B — source compositor error*

A textual slip; intended "behind you."

96. batch_112 — *Category B — source compositor error*

A likely compositor ח/'ח' confusion (8 for 5).

97. batch_112 — *Category B — source compositor error*

Probable compositor doubling of נב, or one section split across the page break.

98. batch_112 — *Category B — source compositor error*

A probable compositor error dropping the resh; rendered by sense, printed as-is.

99. batch_113 — *Category B — source compositor error*

Intended ראייה.

100. batch_113 — *Category C — author/source anomaly*

The §57 (conchoid/asymptotic-lines) material runs continuously with no missing body, so this is a compositor siglum skip in the source's own margin numbering, not a content gap. (Confirmed Cat-C in the report.)

101. batch_114 — *Category B — source compositor error*

Likely a print error in a small-type margin figure (possibly recte 648 or 7776); printed as-is.

102. batch_116 — *Category B — source compositor error*

A likely compositor misread of 44 as 41.

103. batch_117 — *Category C — author/source anomaly*

An internal source inconsistency (or a fraction error in the $\frac{1}{4}/\frac{1}{3}$ run), not a misread of the example; printed as-is.