Math 4-5 Changes Summer 2024

Note that the numbers below refer to the 2024–2025 edition, unless followed by a ('23) in which case they refer to the 2023–2024 edition.

3	edited to add radians, slight rewording
6	changed to radians, edited answer
7	edited answer
10	changed to radians, edited commentary
15	changed to radians, commentary
25	changed to strict inequality, changed to radians, edited answer/commentary
52	moved from #110('23), edited commentary
88	changed quartic, asked to identify roots and intercepts, edited answer/commentary
96	changed point symmetry to half-turn symmetry, edited answer/commentary
101	added "by hand" and graphing question, changed to radians, edited answer/commentary
138	edited wording, added a part to practice polynomial division, edited answer/commentary
146	edited comment to reference #171 instead of the commentary of 278
153	edited parts - more explicit about poly division/asymptotes, edited answer/commentary
154	deleted last sentence
166	changed "long-division" to polynomial division
171	added right angle to diagram
192	edited commentary, changed "f" to "h" for the function
204	edited commentary, fixed exponential expression
224	added oblique, slant asymptote terminology
244	edited language to focus on approximation
257	corrected answer parts f) and g)
264	corrected answer c)
276	**new problem**, continuity practice graphically
277	removed "lazy" from commentary, adjusted spacing for diagram in #276
278	edited commentary to reference #171
279	moved from #286('23)
362	added last sentence to commentary
372	corrected commentary, slight reordering of letters in problem
376	moved from #244('23)
408	deleted first sentence, removed "mental" from part c), reworded part e)
410	changed answer, asked students to check answer, edited commentary
452	corrected answer
490	slight rewording for spacing, adjusted diagram spacing
491	removed extra "the" and adjusted diagram spacing
495	added sentence describing the track
505	added $a \neq 0$
506	changed "from" to "form" in commentary last sentence
512	made "worthwhile" one word in commentary
539	slight rewording of surface area of water
543	corrected commentary, put 12 under sq root in paragraph 4
553	italicized radius of curvature, emphasized using methods in this course

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554	reworded sentence about model prediction
563	reworded last sentence
590	fixed grammar in part b)
591	**new problem**, practicing the ideas behind l'Hôpital's Rule
595	edited answer of part r)
621	moved from #646('23)
622	moved from #647('23), edited commentary
631	changed reference in commentary to #622 instead of #626('23)
685	adjusted spacing from #683 diagram placement in ('23)
697	removed "integration by parts" from question
729	adjusted diagram spacing
730	added reference to #697, added name "integration by parts" and adjusted diagram spacing
731	adjusted diagram spacing
740	removed reference to #626('23) in commentary
828	removed reference to #626('23) in commentary
841	removed reference to #626('23) in commentary
930	adjusted spacing between this problem and #931
963	added title
972	added title
1000	adjusted spacing after number of problem
1013	slight rewording
p.140	added to definition of continuous for closed bounded intervals on the endpoints
p.147	corrected "interval of convergence" definition
p.150	changed "oblate" to "oblate ellipsoid" and "prolate" to "prolate ellipsoid"
p.150	added "oblique asymptote"
p.150	added to "Pappus' theorem" so no self-intersection of solid
p.151	edited "polar form of complex number" reference, added comment about units of angle
p.152	edited "polynomial division" reference, added long division example of integers
p.152	changed "prolate" to "prolate ellipsoid"
p.154	added different schemes to definition of "Riemann sum"
p.155	added "slant asymptote"
p.167	changed ratio test to start at n in limit instead of $n-1$
626('23)	**deleted**, moved to supplement
p.149('23)	removed "long-division algorithm"