Math 4-5 Changes Summer 2023

Note that the numbers below refer to the 2023–2024 edition, unless followed by a ('22) in which case they refer to the 2022–2023 edition.

To the Student	updated
3	changed r to $|r|$ for distance, changed wording
11	edited commentary, this problem accepts repeats, removed hint
62	deleted "In other words"
67	deleted last sentence, edited commentary
76	edited commentary
77	deleted "In other words"
90	edited commentary
97	changed $r < 0$ case to reference problem number
105	enumerated parts, adjusted answer
110	**new problem** to give absolute value practice, recall definition
119	deleted last sentence, made commentary more clear
121	added DNE terminology
137	added to carefully examine boundaries
142	moved earlier from #244('22)
143	edited placement of picture
151	changed 2011 to change based on current year
152	rephrased question, added using limits to show it
164	moved earlier from #180('22)
171	added DN tangent to circle, more clarity
173	deleted the hint
176	made instructions more explicit, amended answer
186	made instructions more explicit, amended answer
195	edited formatting
196	edited formatting of picture
218	made instructions more explicit, amended answers
227	added to commentary that numerical approach is fine
228	made instructions more explicit, edited answer
241	fixed commentary
244	added comment about useful appendix theorems
248	**new problem**, continuity practice
253	changed wording from "essential" to "convenient"
258	added suggestion for printing in commentary
260	edited commentary, changed answer to "student graph"
273	changed "should" to "may," edited commentary
457	edited commentary
461	italicized *critical value*
684	edited formatting
710	deleted the word "meaningful," edited commentary/answer
815	split into parts
844	**new problem** intended to be an easier version of its continuation #845
845	changed to be continuation of #844

864	moved earlier from #899('22)
865	moved earlier from #869('22)
866	moved earlier from #870('22)
867	moved earlier from #871('22)
868	edited commentary
871	added for students to think about antiderivative
872	split into two problems, continuation is #873
873	**new problem**, second half of #872
876	edited commentary to acknowledge improper integral when $p < 0$
877	edited commentary
883	edited to include more Calculus ideas
884	**new problem** practice of geometric series
899	added comment about useful appendix theorems
901	edited problem for students to come up with their own solutions
913	added part d, counterexample of 0^0 limit being 1
921	slight rewording, moved earlier from #935('22)
925	changed so students find partial fractions
946	edited commentary
965	added wording to use partial fractions
967	removed hint about partial fractions
982	changed "show" to explain to indicate no proof needed
984	fixed typo
997	moved earlier from #1024('22), split into parts, added infinite case
p.140	added *critical value* to the reference section
p.144	fixed *Gregory's Series* reference
p.149	reformatted *long-division* example
p.150	reworded definition of *one-sided limit*
p.166	added *Theorem #20* about integrating/differentiating series
p.167	Ratio Test: added note about non-positive series
p.168	removed y' from y-axis of graphs
p.169	removed y' from y-axis of graphs
235('22)	**deleted**, moved to supplement
237('22)	**deleted**, moved to supplement
882('22)	**deleted**, moved to supplement
897('22)	**deleted**, moved to supplement
931('22)	**deleted**, moved to supplement
p.168('22)	**deleted** Winplot page, commented out in TeX