

Math 3 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.

| | |
|-----|--|
| 2 | added question about cylinder |
| 17 | added question about cone |
| 22 | deleted last question, edited answer/commentary |
| 23 | edited commentary, removed reference to Math 2 deleted problem |
| 32 | added to commentary discussion about t vs θ |
| 54 | unitalicized negative |
| 67 | fixed commentary typo, edited commentary to fix reference and provide clarity |
| 73 | fixed answer typo |
| 87 | fixed commentary reference |
| 120 | fixed answer typo |
| 155 | unitalicized “could” and “must” |
| 159 | u and v nonzero addition |
| 171 | changed “coefficient matrix” to “transformation matrix” |
| 190 | changed “coefficient” to “transformation” |
| 192 | unitalicized “written as columns” |
| 225 | edited to included definition of “inverse matrix”, slight rewording |
| 230 | added altitude of plane, edited answer/commentary |
| 231 | changed to 3×3 matrix, moved from #222('23), edited answer/commentary |
| 237 | added “invertible” to beginning, slight rewording of first sentence |
| 238 | unitalicized “non-invertible” |
| 245 | unitalicized last sentence, added r is height |
| 250 | removed spacing edits from diagram placement in ('23) version |
| 253 | edited diagram spacing |
| 254 | edited spacing for diagram in 253 |
| 268 | added parts, added C invertible, slight rewording, unitalicized “variables” |
| 270 | slight rewording of first sentence |
| 288 | changed population to 8 000 000 000, edited answer/commentary |
| 325 | added with graphing tool, added another part about graphing by hand |
| 336 | adjusted diagram spacing |
| 337 | adjusted spacing, does it look better before or after? |
| 341 | added “by hand”, and without calculator verbiage |
| 353 | changed “licorice” to string or thin cord, edited commentary |
| 365 | added with graphing tool, added another part about graphing by hand |
| 374 | added “where have you seen this before?” |
| 384 | reworded instructions |
| 386 | fixed equation spacing |
| 394 | fixed equation spacing, edited diagram spacing |
| 411 | unitalicized square roots and cube roots |
| 424 | added <i>PEABODY</i> labeling, edited answer/commentary |
| 426 | added “plausible” |
| 441 | unitalicized “decade” and “monthly” |

Math 3 Changes Summer 2024

| | |
|-------|--|
| 455 | unitalicized “find an exponent” |
| 468 | unitalicized eccentricity sentence |
| 480 | unitalicized eccentricity sentence and “two-thirds” |
| 491 | unitalicized hint |
| 494 | unitalicized first sentence |
| 503 | unitalicized “not” and “are” |
| 504 | unitalicized “below” |
| 553 | added question about domain, range, edited answer/commentary |
| 562 | added question about domain, range, edited answer/commentary |
| 567 | added question about domain, edited answer/commentary |
| 572 | added question about range, edited answer/commentary |
| 578 | added question about domain, range, edited answer/commentary |
| 598 | edited commentary |
| 601 | edited spacing of large numbers for consistency |
| 610 | added scale to axes |
| 632 | swapped last two questions, edited answer/commentary |
| 633 | unitalicized restaurants |
| 634 | unitalicized restaurants |
| 637 | unitalicized “this” |
| 639 | unitalicized “addition problem,” edited commentary |
| 644 | unitalicized restaurants, changed The Green Bean to Big Bean |
| 654 | swapped with #655, changed to radians, edited answer/commentary |
| 655 | swapped with #654, changed to radians, edited answer/commentary |
| 662 | unitalicized “inconsistent” |
| 666 | swapped with #675, changed to radians, edited answer/commentary, edited spacing for diagram in #676('23) version |
| 671 | removed italics “twice” and “through the telephone” |
| 672 | unitalicized “domain,” edited commentary |
| 673 | unitalicized “range,” edited commentary |
| 675 | swapped with #666, changed to radians, edited answer/commentary, edited spacing for diagram in #676 |
| 753 | deleted first part, slight rewording |
| 759 | deleted “use the distance formula” |
| 766 | added question about regular heptagon, edited answer/commentary |
| 772 | edited numbers, edited answer/commentary |
| 809 | deleted references to less than \$300 |
| 810 | edited to be a question |
| p.95 | fixed problem number reference |
| p.98 | deleted last sentence in reference of “confocal conics,” |
| p.100 | removed reference in “domain” to a problem in supplement |
| p.100 | added “dilation matrix” to reference |
| p.103 | edited “inverse matrix” reference problem order |
| p.103 | added “invertible matrix” to reference |
| p.107 | unitalicized bases, added “polygonal” to definition of prism |
| p.107 | adjusted projection diagram |

Math 3 Changes Summer 2024

| | |
|--------|---|
| p.108 | added “reflection matrix” to reference |
| p.109 | added “shear matrix” to reference |
| p.110 | added to definition of “singular matrices” |
| p.112 | added “transformation matrix” to reference |
| 635 -1 | adjusted diagram spacing from ('23) due to page break |
| hint | changed the hint macro which makes all hint words unitalicized - easy to undo if wished |

The following problems were moved to a Math 3 Appendix. This Appendix was created in 2023 as a place for problems that have been skipped in recent years due to limited class and homework time for our students. No changes were made to the Appendix in 2024 except as listed above. The numbering system indicates where they came from in our book, for example, 122-1 and 122-2 are problems that directly followed problem 122.

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 11 -1 | 230 -1 | 326 -1 | 406 -2 | 561 -1 | 612 -1 | 728 -1 | 783 -2 | 812 -3 | 838 -1 |
| 27 -1 | 288 -1 | 341 -1 | 412 -1 | 574 -1 | 620 -1 | 736 -1 | 788 -1 | 816 -1 | 838 -2 |
| 31 -1 | 310 -1 | 351 -1 | 450 -1 | 591 -1 | 630 -1 | 744 -1 | 795 -1 | 816 -2 | 838 -3 |
| 122 -1 | 316 -1 | 363 -1 | 477 -1 | 591 -2 | 635 -1 | 745 -1 | 796 -1 | 819 -1 | 838 -4 |
| 122 -2 | 319 -1 | 391 -1 | 477 -2 | 609 -1 | 656 -1 | 745 -2 | 803 -1 | 831 -1 | 838 -5 |
| 168 -1 | 320 -1 | 395 -1 | 477 -3 | 609 -2 | 680 -1 | 775 -1 | 812 -1 | 834 -1 | 838 -6 |
| 191 -1 | 320 -2 | 406 -1 | 502 -1 | 609 -3 | 680 -2 | 783 -1 | 812 -2 | 834 -2 | 838 -7 |