

First Semester Exam Review
Algebra I
Chapters 1-7

Name: _____

Date: _____ Hour: _____

The Algebra I first semester exam will be a combination of multiple-choice, short answer, and graphing questions. For each question on the exam, you will find a similar question on this review.

Show your work on separate paper (in your spiral notebook, on graph paper, and/or on lined paper) to receive credit for the questions below.

Remember you also have your old quizzes, worksheets, classwork, and homework to study!

Chapter 1

Review Questions

Chapter 1.6 (p. 35) p. 35 #1 p. 36 #2, 3 p. 38 #9, 10, 12
Chapter 1.7 (p. 49) p. 50 #1-6

Chapter 4

Review Questions

Chapter 4.2 (p. 215) p. 219 #14, 16, 21, 22, 23, 24, 25
Chapter 4.4 (p. 235) p. 235 #1, 2, 3 p. 237 example 5 p. 239 #4, 5, 6, 10 p. 485 #61
Chapter 4.5 (p. 244) p. 244 #1, 2 p. 247 #13, 16, 17, 18, 19
Chapter 4.6 (p. 253) p. 257 #11, 14, 19, 21
Chapter 4.7 (p. 262) p. 265 #3, 4 p. 266 #13

Chapter 5

Review Questions

Chapter 5.1 (p. 283) p. 283 #1, 2 p. 285 example 5 p. 288 #47
Chapter 5.2 (p. 292) p. 292 #1 p. 295 #5 p. 296 #4 p. 349 #17
Chapter 5.3 (p. 302) p. 302 #1 p. 304 example 5 p. 305 #8 p. 307 #37
Chapter 5.5 (p. 319) p. 319 #1 p. 321 #4 p. 322 #7, 12, 16
Chapter 5.6 (p. 325) p. 326 #2 p. 328 #3, 4, 5
Chapter 5.7 (p. 335) p. 338 #3, 5 [NOTE: These two questions use the graphing calculator. You will have class time to do these.]

Chapter 6

Review Questions

Chapter 6.1 (p. 356) p. 357 #4 p. 359 #6, 7, 8, 9, 11
Chapter 6.2 (p. 363) p. 363 #1 p. 366 #5, 8, 10 p. 367 #36 (write out inequality)
Chapter 6.3 (p. 369) p. 422 #4 p. 373 #38
Chapter 6.4 (p. 380) p. 382 #7, 9 p. 384 #12, 15
Chapter 6.5 (p. 390) p. 393 #9, 13, 15, 23
Chapter 6.6 (p. 398) p. 399 #4, 5
Chapter 6.7 (p. 405) p. 409 #16 p. 410 #46

Chapter 7

Review Questions

Chapter 7.1 (p. 427) p. 430 #6 p. 475 #7
Chapter 7.2 (p. 435) p. 436 #1, 2 p. 482 #8
Chapter 7.3 (p. 444) p. 445 #1, 4, 5 p. 449 #42a
Chapter 7.4 (p. 451) p. 454 #2, 4 p. 456 #37
Chapter 7.5 (p. 459) p. 460 #1, 2 p. 463 #24, 25 p. 479 #28
Chapter 7.6 (p. 466) p. 469 #12 p. 470 #22 p. 479 #26 p. 483 #17

Additional question not in the textbook

Draw a distance-time graph for the following situation. (Distance is measured from the school.) Label each line with the sister's name or first initial.

Karla and Elise are sisters. When school ended, Karla walked directly to their house at a steady rate, not stopping at all. Elise started walking slowly home, then she stopped for 5 minutes to talk to Juan. After talking to Juan, Elise ran the rest of the way home, knowing her grandma would be upset if she got home too late.

Vocabulary list for Algebra I Semester 1:

absolute value	closed circle	correlation	domain
elimination	equation	function	horizontal line
inequality	infinitely many solutions	negative slope	no solution
open circle	parallel lines	perpendicular lines	point-slope form
positive slope	range	rate of change	scatter plot
slope	slope formula	slope-intercept form	substitution
undefined slope	vertical line	vertical line test	y-intercept
zero slope			