

Algebra II 1st Six Weeks Test (Chapters 1 and 2) Review Solutions

1. $x = \frac{11}{9}$ or $x = \frac{19}{3}$

2. $x = -2\frac{3}{7}$

3. irrational numbers, real numbers

4. integers, rational numbers, real numbers

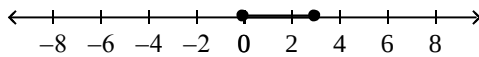
5. rational numbers, real numbers

6. Distributive Property

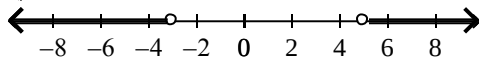
7. Associative Property of Addition

8. Commutative Property of Multiplication

9. $x \geq 0$ and $x \leq 3$



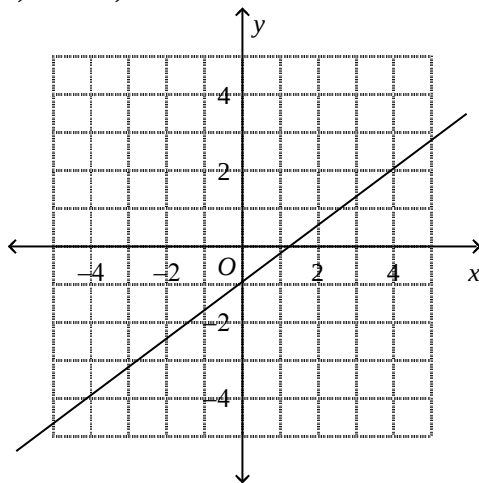
10. $x < -3$ or $x > 5$



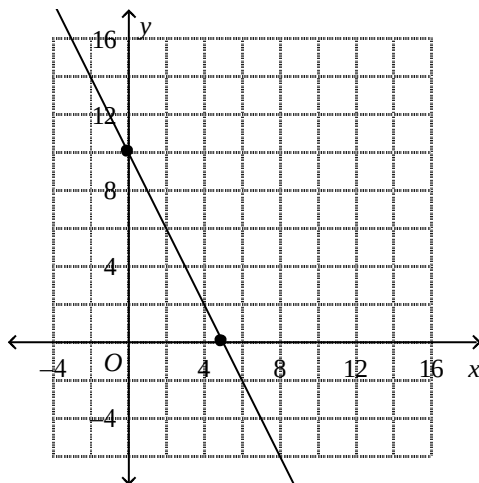
11. -19

12. a) -3 b) -2

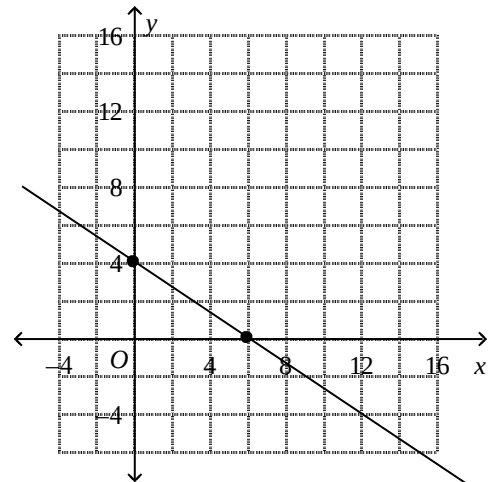
13.



14.



15.



16. $-\frac{13}{9}$

17. $-\frac{1}{4}$

18. $y + 4 = -\frac{1}{8}(x + 6)$

19. $y + 8 = \frac{7}{6}(x + 1)$

20. $8x + y = -18$

21. $-\frac{8}{7}x + y = -\frac{61}{7}$

22. $-\frac{3}{5}$

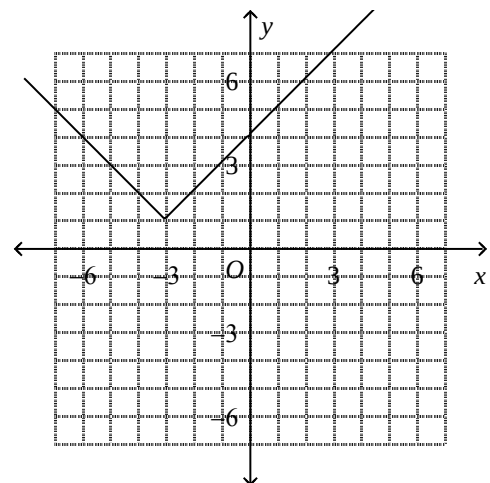
23. $-\frac{9}{4}$

24. yes; $\frac{7}{5}$

25. no

26. $h = 61t + 121$

27.

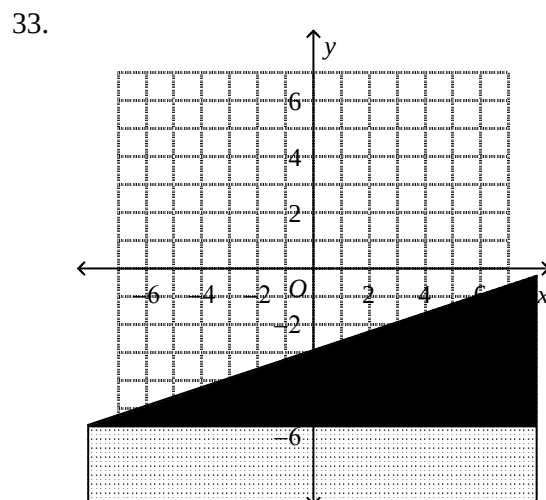
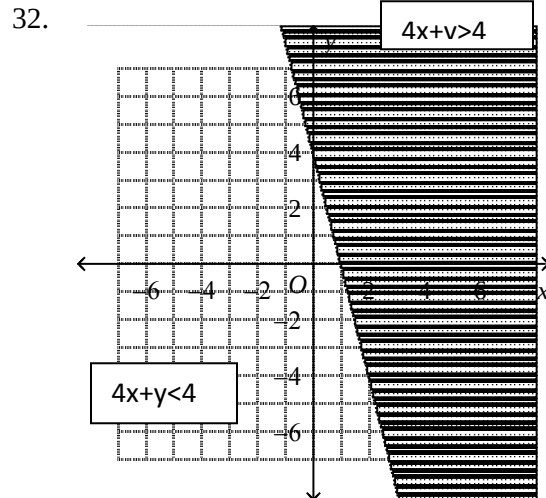


28. $\left(\frac{4}{3}, 2\right)$

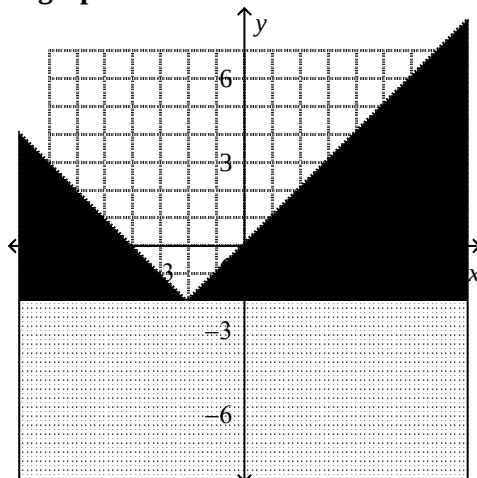
29. $\left(\frac{2}{3}, 4\right)$

30. $y = |x - 11| - 7$

31. $y = |x - 2| + 4$



35. correction: graph as $<$

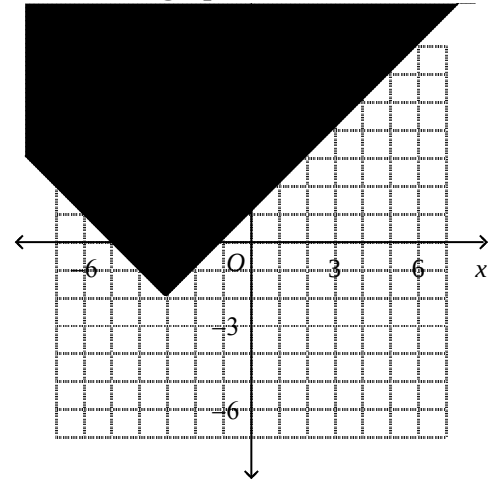


34. A. $w = 10.9$ cm, $l = 76.6$ cm

34. B. $85p + 125r \geq 350$

34. C. $17/37$ approx. 46%

36. Correction: graph as $\geq$



37. No; a domain value corresponds to two or more range values.

38. Yes; for each element in the domain there is exactly one element in the range.

39. $y = -\frac{2}{5}x - \frac{3}{5}$

40. $y = -3x - 6$

41. $y = -\frac{3}{2}x + \frac{27}{2}$

42. yes; $k = 4$; $y = 4x$

43. yes; $k = 1.2$; $y = 1.2x$

44. 46

45. 4.1

46. 284.8 mi

47. $w = \frac{2}{7}t$; 25 months

48. Linear reasonable; $y = 0.73x + 5.2$

49. $|x - 3| - 2$

50. $g = \frac{2s - 4}{t^2}$

$g = 12$