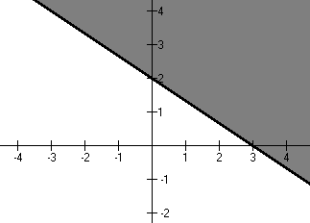


Algebra 1-2 and Algebra C-D
Review for Final Exam

ANSWER KEY

1. $\frac{6+8}{19} = \frac{14}{19}$	26. $\frac{k}{4} + \frac{5}{6k} = \frac{3k^2+10}{12k}$
2. $\frac{7.35}{3} = \frac{50.00}{x}$ $x = 20.41 = 20$ hamburgers	27. $\frac{5}{4}$
3. $.20x = 8$ $x = 40$ chocolates	28. $2x^2 - 8x - 9$
4. $3(-1)[2(2)^2 + 3(3)] = -51$	29. $\frac{3x}{4a}$
5. $\frac{-3(12-5)+4}{15-2 \cdot 3} = \frac{-17}{9}$	30. $20z^2 + 9z - 18$
6. $x + 11 = 7 - 4x$ $5x = -4$ $x = -\frac{4}{5} = -0.8$	31. $y = 1$
7. $18t - 18 = 8t + 40$ $t = 5.8$	32. $m = -\frac{2}{3}$
8. $y = \frac{2a-5c}{3}$	33. $m = -1; y = -x + 10$ or $x + y = 10$
9. $2x - 24 = 4x - 18$ $x = -3$	34. $m = -\frac{4}{3}$
10. $5,840,000,000 = 5.84 \times 10^9$	35. $y = \frac{2}{3}x$
11. $W = L - 5$ $2(L - 5) + 2L = 38$ $L = 12$ meters	36. $d = \sqrt{12^2 + 5^2} = 13$
12. $-6 \leq 4x - 2 < 14 \Rightarrow -1 \leq x < 4$	37. functions are a, c, and d
13. $x \leq -1$ or $x > 2$	38. $x = -13, y = 55$
14. $a = 7$ or $a = -12$	39. $m = -\frac{1}{2}, P(0, -7)$ $y = -\frac{1}{2}x - 7$
15. $x > 4$	40. 12 large and 18 small canvases
16. $y \geq -\frac{2}{3}x + 2$	41. $m = \pm 5$
	42. $x = 3$ or $x = 2$
17. $-21x^6y^5$	43. $b = 2$ or $b = -5$
18. $J = 4C - 2; 4C - 2 = 38 \Rightarrow C = 10$ CDs	44. $(3m + 8)(m - 4) = 0 \Rightarrow m = -\frac{8}{3}$ or $m = 4$
19. $\frac{3}{4y^5}$	45. $5\sqrt{2}$
20. $\left \frac{-14}{7}\right = 2$	46. area = 98 cm^2
21. $(x - 8)(x + 6)$	47. $y = -x^2 + x + 2$ $y = -(x^2 - x - 2)$ $y = -(x - 2)(x + 1)$
22. $4x^2 + 12xy + 9y^2$	
23. $6x^2y$	48. $a = 12$
24. $x^4y + x^4y^2 - x^2y^4$	49. $x = 12$
25. $(3x + 5)(2x - 3)$	50. $2n^3m^3\sqrt{5n}$