

1. 42
2. $28x-44$
3. -10
4. \$1330
5. Graph
6. $\frac{7}{5}B + 11 = A$
7. $X \leq 13/9$ and graph goes to the left with closed circle
8. $24/7 = x$
9. Graph
10. Slope intercept is $y = -1/2x + 2$
11. a. $x \leq 9$ or $x \geq 4$; b. $-27 \leq x \leq 9$
12. $x = -11/9$ and $x = -1$
13. 7
14. 20
15. $Y = 4x - 2$
16. $Y = -3/2x + 5$
17. $X = -2, -3$
18. $-3x^5 + 3x^4 - 2x^3 - x$
19. $x = 5, y = 4$
20. $X=1, y=8$
21. 320 adult, 90 student
22. $X = -3$
23. Graphs shaded downwards
24. Intersect at 2, -4
25. a. $y = 9/8x + 30$; b. 91.8 cents; c. 2026
26. $x = -2, y = 3, z = 1$
27. $(3x^2 + 5)(x - 7)$
28. a. $(3x+2)(x+2)$; b. $(x-6)(x+3)$
29. $A = 279, B = 403, C = 166$
30. a. $(x-11)(x+11)$; b. $(2x+7y)(2x-7y)$; c. $(x+9)^2$
31. $x = 3$
32. $6x^5 - 9x^2 - 3x - 2$
33. $u^3 + u^2 - 27u - 15$
34. a. $7x^2 + 20x - 3$
b. $10x^2 + 2x + 45xy + 9y$
35. $y = 2/3x + 1$
36. at least 97
37. a. $y = 1.5x + 7$; b. \$29.50; c. 10.3 = about 10 movies
38. all real numbers but $x \neq -6$