

Fall Final exam Review packet
Algebra 1 - 2019

1. $b = 2, b = -18/5$
2. $p = -5/4, 1/4$
3. $x = -7$
4.
 - a. one solution
 - b. no solution
 - c. many solutions
5. $x = 7$
6. $x = 24(.15), \$3.60$
7. no solution
8. $15 \leq t/5, t \geq 75$

9. $c > -3$

10. $1 \leq x \leq 5$

11. $6 \geq 6(x + 2)$
 $x \leq -1$

12. $-5 < n < 4$

13. a. $m = -2$

b. y-int: -2

c. x-int: -1

d. y-int: -8

14. a. $m = -1/3$

b. y-int = 1

c. $y = -1/3 x + 1$

15. a. linear (common difference = 2)
b. not linear (no common difference)
16. a. $f(x) = (x + 3) + 5$
b. $f(x) = (x - 8)$
17. x-int: -5
y-int: -2
18. $g(-3) = 30.5$
19. $x = 8$ because $-13 = -3x + 11$
20. a. Function
b. Not function
21. $C = \$40$

22. a. $f(-5) = 7$

b. $f(4) = 11$

c. $f(-1/2) = 7$

d. $f(0) = -1$

23. a is perpendicular to b

24. $a \parallel c$, a is perpendicular to b

25. $y = -3x + 9$

26. common difference = 4

27. $y = x - 3$

28. $a_n = -3n + 5$

$a_{20} = -55$

29. (2,3)

30. a. no solution

b. one solution $(\frac{20}{3}, -13)$

c. infinite solutions

31. 10 miles ... (solve for m, cost would be \$35)

32. b and c are not solutions

33. $y \geq 2x - 1$

34. (-4, 5)

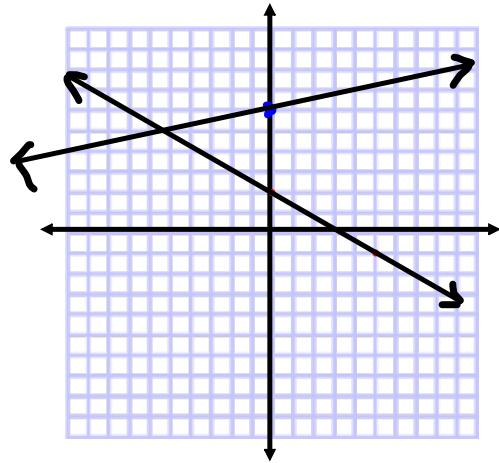
35. Infinite solutions (coincident lines)

36. time = 2 years

37. $y = \frac{1}{5}x + 6$

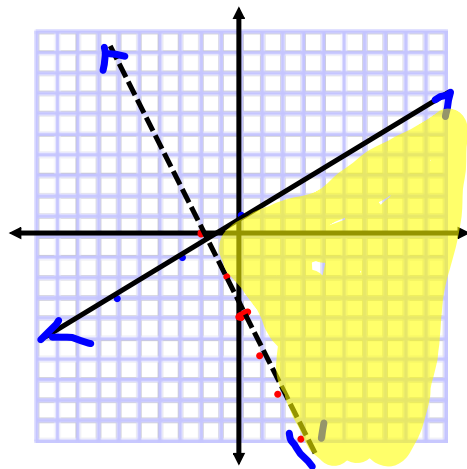
$$y = -\frac{3}{5}x + 2$$

solution at $(-5, 5)$



38. $y > -2x - 4$

$$y \leq \frac{2}{3}x + 1$$



39. a. .25, b. .92, c. $\frac{4}{5}$