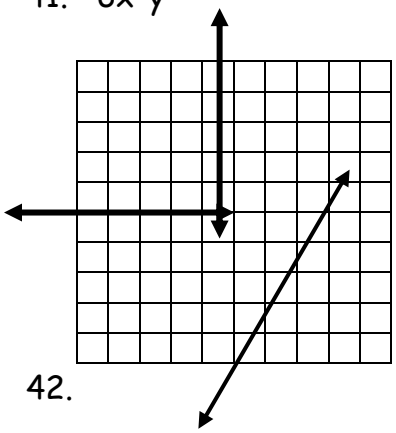
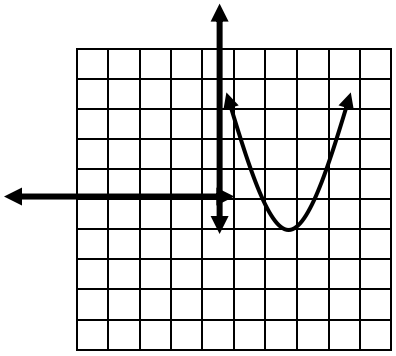
Alg CP Review for Final #1

1. 75
2. 1
3. -436
4. $m^2$
5. $a^6b^{12}$
6. $\frac{x}{4y^2}$
7. $2\sqrt{14}$
8. $5\sqrt{11}$
9. $7\sqrt{5}$
10. $49c^2 + 14c + 1$
11. $15u^4 - 7u^3 - 4u^2$
12. $\frac{9}{2m}$
13. $\frac{3}{2}$
14. $\frac{3\sqrt{2}}{2}$
15. x = 4
16. no solution
17. x = 5 or $-\frac{1}{3}$
18. x = $\pm 2$
19. x = 5 or 4
20. x = 4 or $-\frac{1}{3}$
21. x = 43.2
22. r = 17
23. x = -2
24. m ≥ -35
25. x < -5
26. x ≤ -8
27. y < -13 or y > -5
28. -10 < x ≤ 14
29. -1 ≤ x ≤ 5
30. x-int: $\frac{7}{2}$
    y-int: -14
31. x-int: -5
    y-int: 4
32. y = 5x + 3
33. y = -3x + 8
34. y = -x
35. y = 4x – 18
36. y = -3x + 7
37. y = -2x + 13
38. $y = \frac{1}{3}x + 1$
39. $\frac{m^8}{n^9}$
40. $\frac{3r^{18}s^6}{16}$
41. $6x^9y^3$



42.

43.



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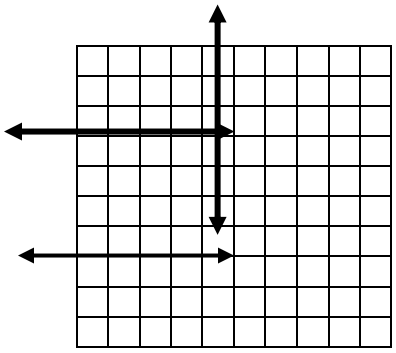

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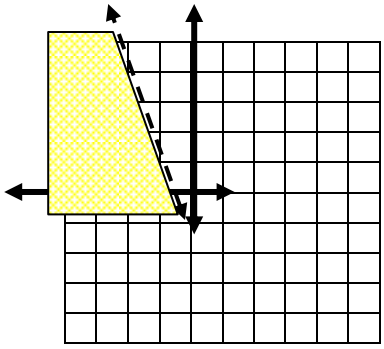

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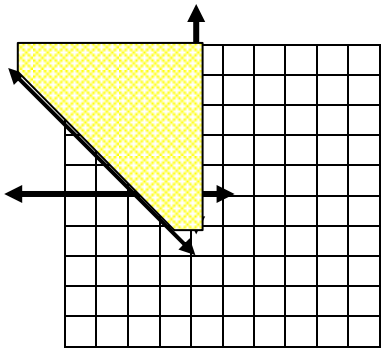

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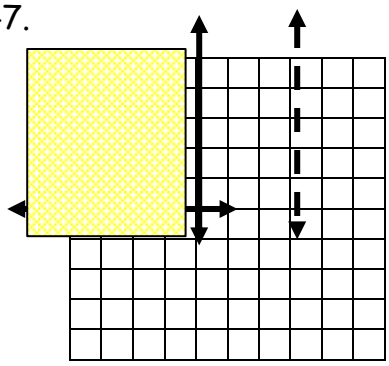


48. It would take 5 hours.
49. It would take Moncourtois 3 hrs
50. There would be 2 lb. of Jolly Ranchers and 3 lb. of M&Ms.

Alg CP Review for Final #2

1) $2n^3 - 7$

2) $10 + 5n = 4n + 12$

3) $-29$

4) 96

5) 111

6) $x - 9$

7) $4x^2 - 9x - 15$

8) $y = -56$

9) 2

10) $-4$

11) $-\frac{1}{10}$

12) $-\frac{1}{2} \le y \le -\frac{1}{4}$

13) $x < -3$ or $x > 11$

14) You have 7 dimes and 5 quarters.

15) x-intercept is 2
y-intercept is 3

16) $y = -\frac{3}{4}x + 4$

17) see graph

18) see graph

19) $-\frac{1}{3}$

20) undefined

21) 0

22) $y = -8x + 12$

23) $y = -3x + 14$

24) $y = -9x - 5$

25) $y = -\frac{1}{2}x + 6$

26) (2, 7)

27) (2, 5)

28) $(-1, 2)$

29) $(-1, 4)$

30) no solution

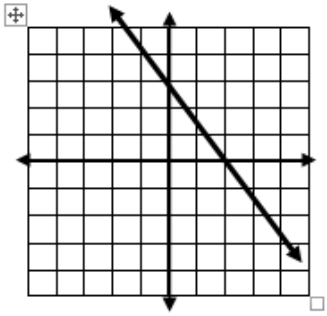
31) infinitely many

32) There were 22 children and 15 adults.

33) 8

34) $2\sqrt{5}$

15



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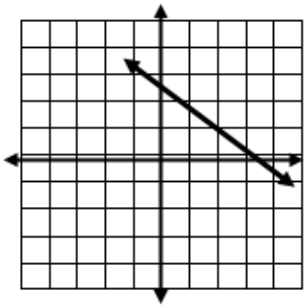

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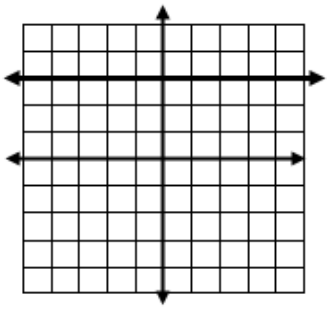

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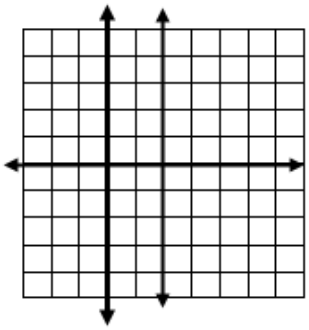


Alg CP Review for Final #3

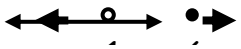
1) $-2, 10$

2) $-1 < x < 7$

3) $x \le -\frac{3}{2}$ or $x \ge -1$

4) $-6 \le x \le -1$

5) $x < 1$ or $x \ge 6$



6) $-6 \le x \le 4$

7) see graph

8) see graph

9) see graph

10) $12x^5y^8$

11) $-\frac{6x}{y^2}$

12) $\frac{1}{x^6y}$

13a) cubic binomial

b) quadratic trinomial

c) quadratic monomial

14) $-4a^2 + 4a - 1$

15) $2a^3 - 7a^2 + a + 7$

16) $3x^2 - 10x - 8$

17) $36x^2 - 16$

18) $4x^4 - 4x^2 + 1$

19) $2(x-4)(x-1)$

20) $(y+2)(2y+1)$

21) $(12x-5)(12x+5)$

22) $-\frac{8}{7}, \frac{8}{7}$

23) $y = \pm\sqrt{15}$

24) $-5, 2$

25) $x = 6 \pm 4\sqrt{2}$

26) $x = -\frac{1 \pm \sqrt{17}}{4}$

27) $-20$

28) see graph; vertex (-1,-4)

solutions {-3, 1}

29) $-2\sqrt{7}$

30) $3\sqrt{2}$

31) $\frac{5+3\sqrt{5}}{4}$

32) $3 + 5\sqrt{6}$

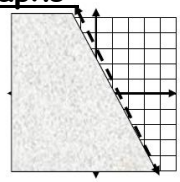
33) 61

34) no solution

35) One driver's speed was 65mph and the other driver's speed was 85mph.

**Graphs:**

7)



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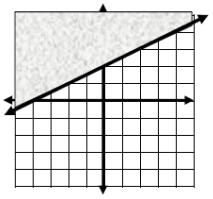

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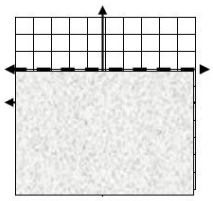
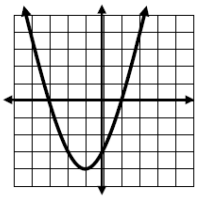
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