

Algebra II
Ch. 8 Review

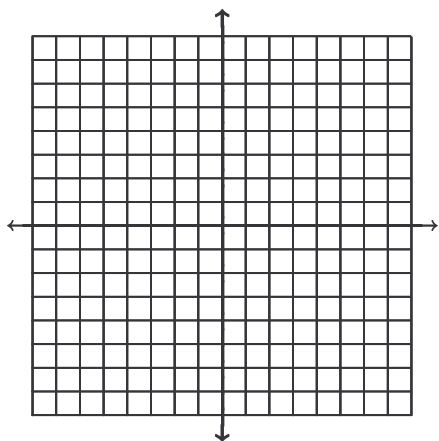
Name _____

Date _____

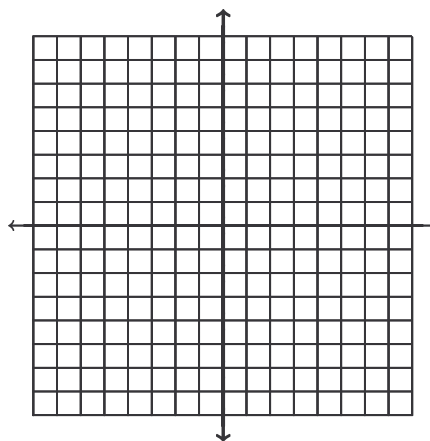
Show work on all problems!

Solve by graphing.

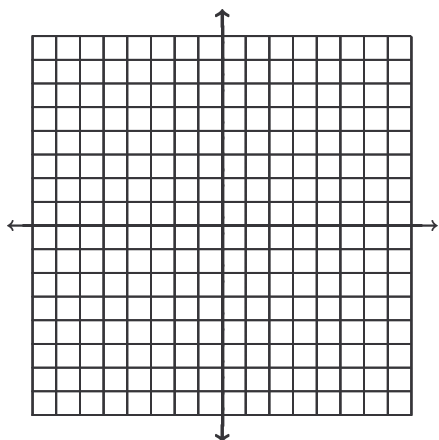
1. $y = -\frac{5}{2}x$
 $y = -4x + 6$



2. $y = 2x - 2$
 $y = 2x + 2$



3. $6x - 3y = -6$
 $-2x + y = 2$



4. Solve: $|-3x - 6| = 18$

- a) $\{-8, 4\}$ b) $\{-8, -4\}$ c) $\{-4, 8\}$
d) $\{-4\}$ e) no solution

5. Solve: $|\frac{1}{2}n + 4| = 12$

- a) 32 only b) 16 or 20 c) 16 or -32
d) -16 or 8 e) no solution

Solve.

6. $18 = \left| \frac{c}{3} + 6 \right|$

7. $4x - 5y = -28$
 $-4x + y = -4$

8. $2x + 4y = 14$
 $3x - y = 14$

9. $3x + 2y = 0$
 $8x + 7y = 5$

10. $2x - y = 5$
 $-2x + y = 7$

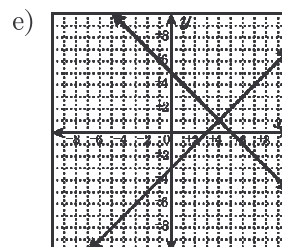
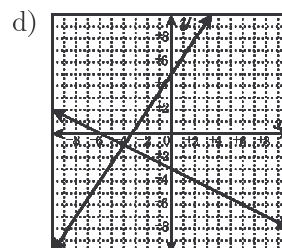
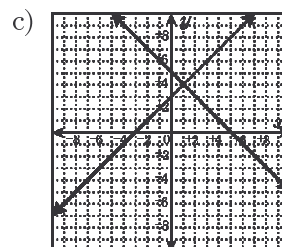
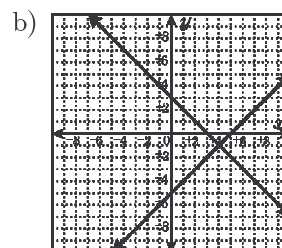
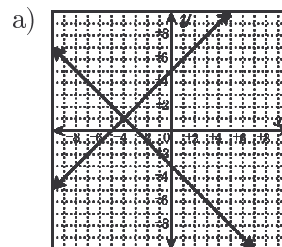
11. $4x - 6y - 20 = 0$
 $2x - 3y - 10 = 0$

12. $5x - 3y = 0$
 $-4x + 5y = 26$

13. Which graph shows the solution of the following system?

$$x - y = 3$$

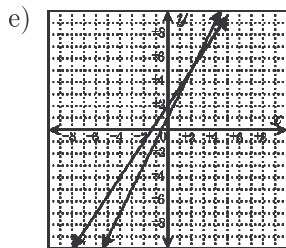
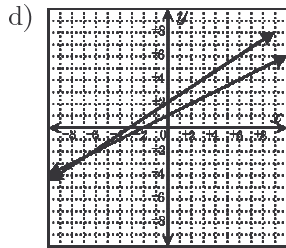
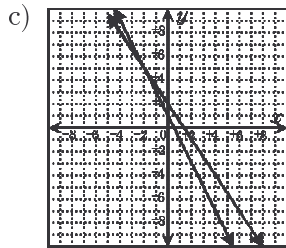
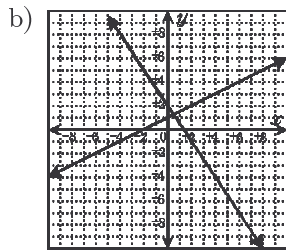
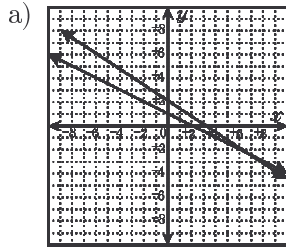
$$x + y = 5$$



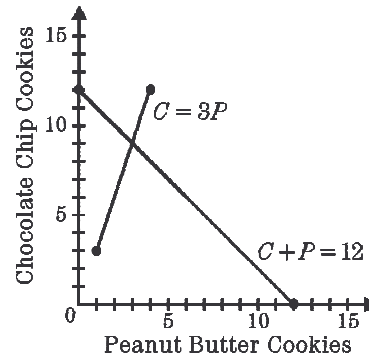
14. Which graph shows the solution of the following system?

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

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



15. The two line segments shown are representative of the information that Renee has a total of 12 cookies in chocolate chip and peanut butter, ($C + P = 12$), and the number of chocolate chip cookies is three times the number of peanut butter cookies, ($C = 3P$). How many of each type of cookie does she have?



- a) 2 chocolate chip and 10 peanut butter
- b) 3 chocolate chip and 9 peanut butter
- c) 6 chocolate chip and 6 peanut butter
- d) 9 chocolate chip and 3 peanut butter
- e) 10 chocolate chip and 2 peanut butter