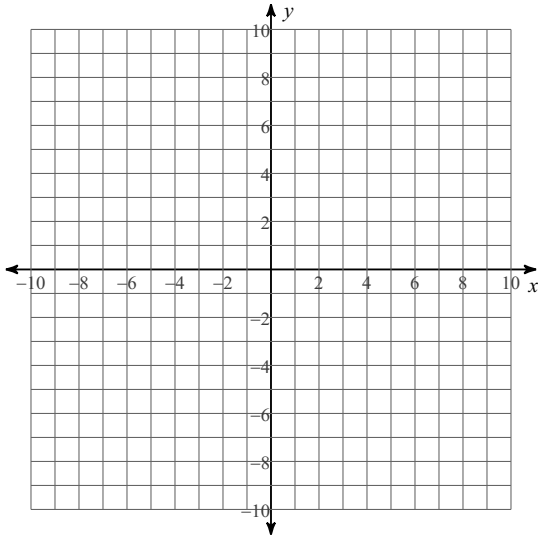


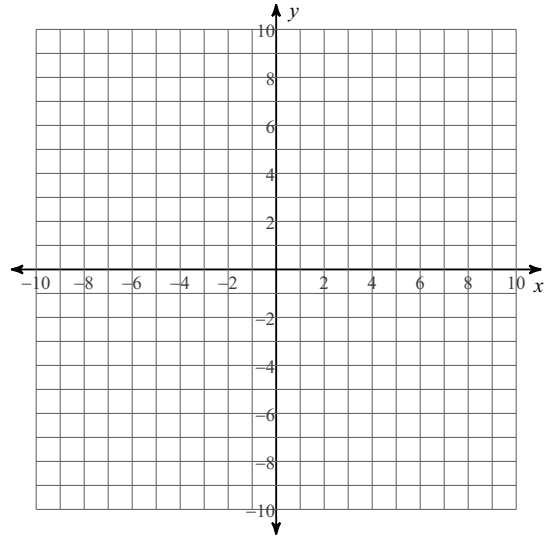
4.1 Test Review

Solve each system by graphing.

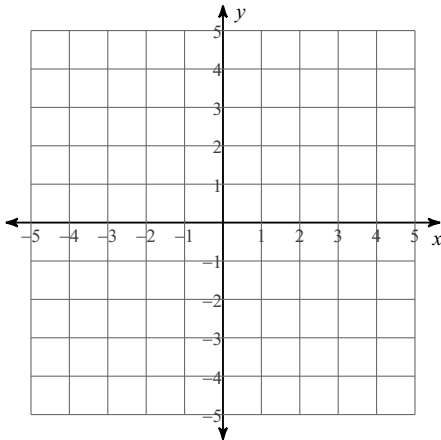
1) $x - 5y = 20$
 $8x - 5y = -15$



2) $6x - 5y = 10$
 $4x + 5y = 40$



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



4) Jet sold 3 pies and 4 cakes for \$64. Ethan sold 2 pies and 8 cakes for \$80. What is the cost for each?

Solve each system (any way you want). Write No Solution or Many Solutions for your answer where it applies.

5) $x + 5y = -10$
 $-3x - 5y = 0$

6) $-6x + y = -1$
 $2x - 4y = 4$

7) $3x - 2y = 13$
 $5x + 2y = -5$

8) $-2x + 5y = -8$
 $7x - 7y = 7$

9) $-x + 5y = -20$
 $4x + 2y = 14$

10) $-16x - 2y = -4$
 $8x + y = 2$

11) $-4x + 10y = 4$
 $9x + 9y = -9$

- 12) Make a systems of equations that meet the following conditions:
- a) Each variable has to have a different number.
 - b) It has many solutions.
 - c) When you are done, actually use your math skills to prove to me that it has many solutions.

- 13) Jaron went on Amazon, and since he had Prime, he didn't need to pay shipping. He bought 6 pairs of squirrel underpants and 4 eyepatches for \$29.60. Then he went on two days later (to get some for his Grandpa) and bought more. It cost him \$16.45 for 2 pairs of underpants and 3 eyepatches. How much did each cost?