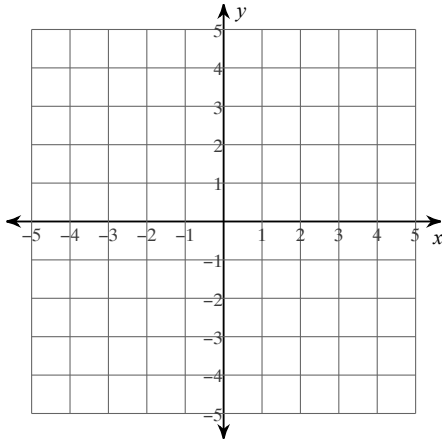


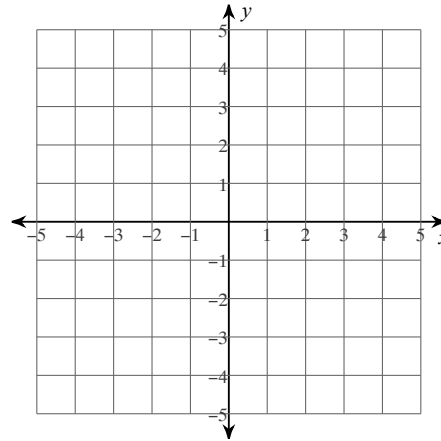
Unit 5 Test

Solve each system by graphing.

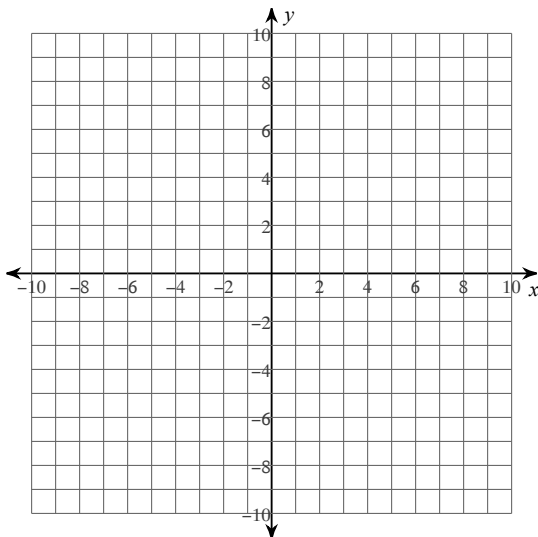
1)  $y = -\frac{1}{2}x + 3$   
 $y = -4x - 4$



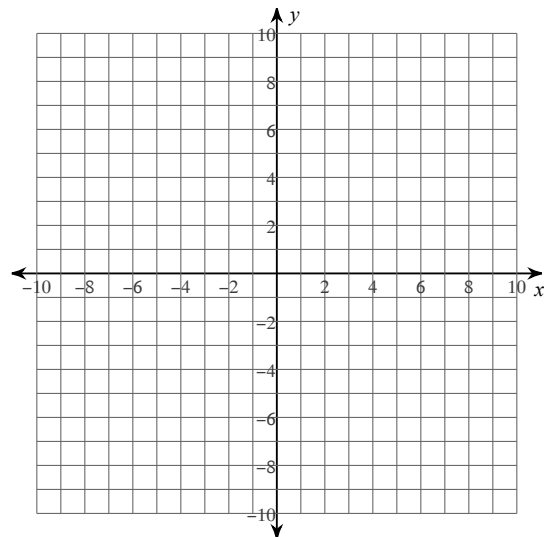
2)  $y = -\frac{1}{4}x - 3$   
 $y = \frac{3}{4}x + 1$



3)  $-6y + 3x = 36$   
 $-2y = -8 - 11x$



4)  $3 - 6x - y = 0$   
 $-y = x - 8$



**Solve each system by elimination.**

5)  $2x + 5y = -1$   
 $8x - 5y = 21$

6)  $-6x - 4y = 18$   
 $-6x - 4y = 18$

**Solve each system by substitution.**

7)  $-x + 5y = 18$   
 $x + 4y = 18$

8)  $2x + y = 17$   
 $-x + 3y = 2$

9)  $-3x + 2y = 4$   
 $x + 7y = -9$

10)  $-5x + y = -21$   
 $-5x + 2y = -22$

11) Jenny's school is selling tickets to a spring musical. On the first day of ticket sales the school sold 3 adult tickets and 7 child tickets for a total of \$39. The school took in \$72 on the second day by selling 5 adult tickets and 14 child tickets. What is the price each of one adult ticket and one child ticket?

Let  $a$  represent \_\_\_\_\_ tickets. Let  $c$  represent \_\_\_\_\_ tickets.

Equation 1: \_\_\_\_\_ Equation 2: \_\_\_\_\_

Solve:

Answer (in sentences):