

Section 1.3 Practice Master

- Which two equations are equivalent?
 - $y = 2x + 6$
 - $2y = x + 12$
 - $3y = x + 2$
 - $2y = 4x + 12$
- Write two equivalent equations for each.
 - $y = -4x + 3$
 - $3x + 2y = 5$
 - $2x + 5y - 6 = 0$
 - $y = 6x - 3$
- The perimeter of a rectangle is 30 cm. Write an equation to represent this situation. Then, write an equivalent linear equation.
- The value of the quarters and nickels in Michael's coin jar is \$1.65. Write an equation to represent this situation. Then, write an equivalent linear equation.
- A linear system is given.

$$x - y = 7 \quad \textcircled{1}$$

$$3x + 2y = -5 \quad \textcircled{2}$$
 Explain why the following is an equivalent linear system.

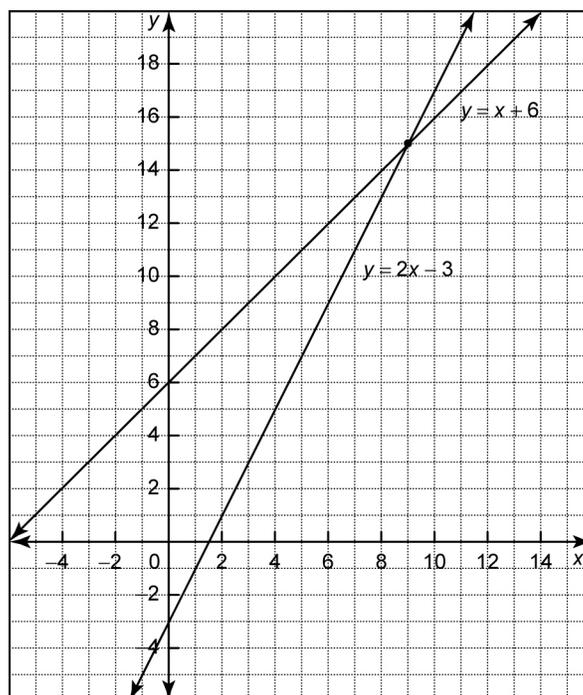
$$3x - 3y = 21 \quad \textcircled{3}$$

$$12x + 8y = -20 \quad \textcircled{4}$$

- The following linear system is shown on the graph:

$$y = x + 6 \quad \textcircled{1}$$

$$y = 2x - 3 \quad \textcircled{2}$$



- Use a graph to show that the following is an equivalent linear system.

$$2y = 3x + 3 \quad \textcircled{3}$$

$$0 = x - 9 \quad \textcircled{4}$$
- How is equation $\textcircled{3}$ obtained from equations $\textcircled{1}$ and $\textcircled{2}$?
- How is equation $\textcircled{4}$ obtained from equations $\textcircled{1}$ and $\textcircled{2}$?