Lesson 15 Practice Problems

1. Solve: $\begin{cases} y = 6x \\ 4x + y = 7 \end{cases}$

2. Solve: $\begin{cases} y = 3x \\ x = -2y + 70 \end{cases}$

3. Which equation, together with $y = -1.5x + 3$, makes a system with one solution?

    A. $y = -1.5x + 6$

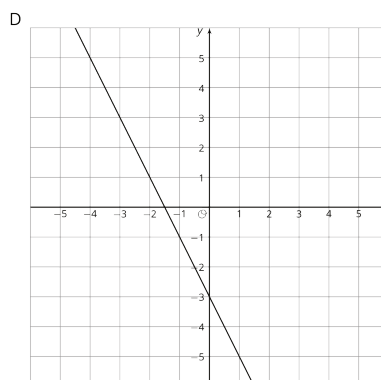   B. $y = -1.5x$

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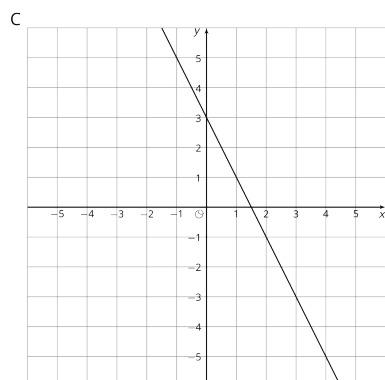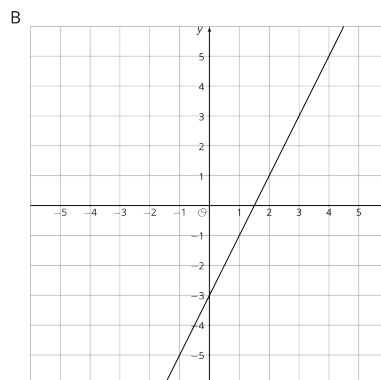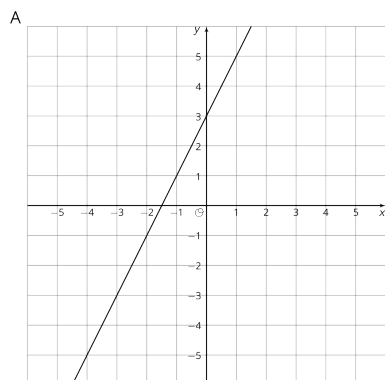
    D. $2y + 3x = 6$

    E. $y = -2x + 3$

4. The system $x - 6y = 4$, $3x - 18y = 4$ has no solution.

    a. Change one constant or coefficient to make a new system with one solution.

    b. Change one constant or coefficient to make a new system with an infinite number of solutions.

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Lesson 15

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1

5. Match each graph to its equation.

A

B

C

D

   a. $y = 2x + 3$

   b. $y = -2x + 3$

   c. $y = 2x - 3$

   d. $y = -2x - 3$

(From Unit 5, Lesson 9.)

6. Here are two points: $(-3, 4), (1, 7)$. What is the slope of the line between them?

   A. $\frac{4}{3}$

   B. $\frac{3}{4}$

   C. $\frac{1}{6}$

   D. $\frac{2}{3}$

(From Unit 5, Lesson 9.)