Systems: Which Points Are Solutions; How Many Solutions

Independent Set 11.05

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

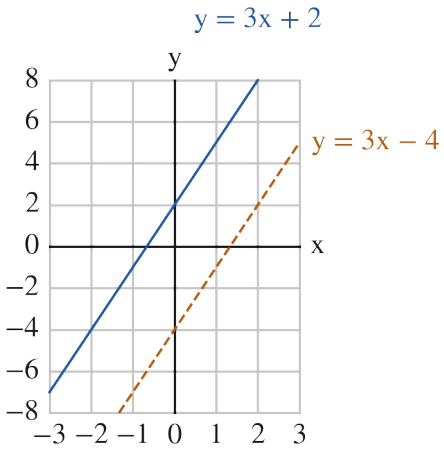
1. Is $(3, -1)$ a solution of the system $y = 2x - 7$ and $y = -x + 2$?

2. $(-1, 4)$ makes one equation of the system $y = -3x + 1$ and $y = x + 6$ false. Which one?

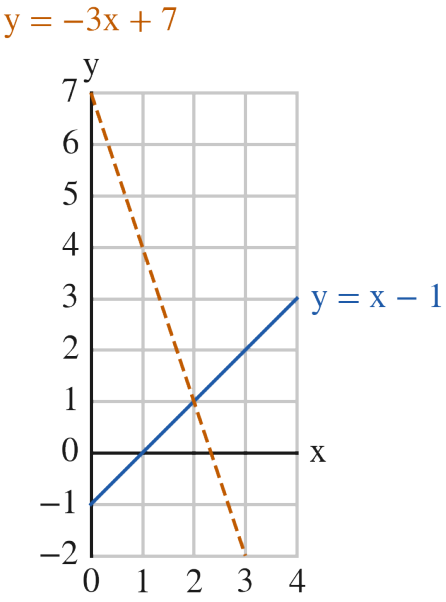
3. Select all the systems that have $(2, 5)$ as a solution.

- ☐ A. $y = x + 3$ and $y = 3x - 1$
- ☐ B. $y = 2x + 1$ and $y = x + 4$
- ☐ C. $y = -x + 7$ and $y = 4x - 3$
- ☐ D. $y = 3x - 2$ and $y = -2x + 9$
- ☐ E. $y = 5x - 5$ and $y = x + 2$

4. The graphs of $y=3x+2$ and $y=3x-4$ are shown. How many solutions does the system have?



5. The graphs of $y=x-1$ and $y=-3x+7$ are shown. How many solutions does the system have, and what is it?



6. Both equations of the system $y = \frac{3}{2}x - 2$ and $y = 1.5x - 2$ graph as the line shown. How many solutions does the system have?

