

Name: Key

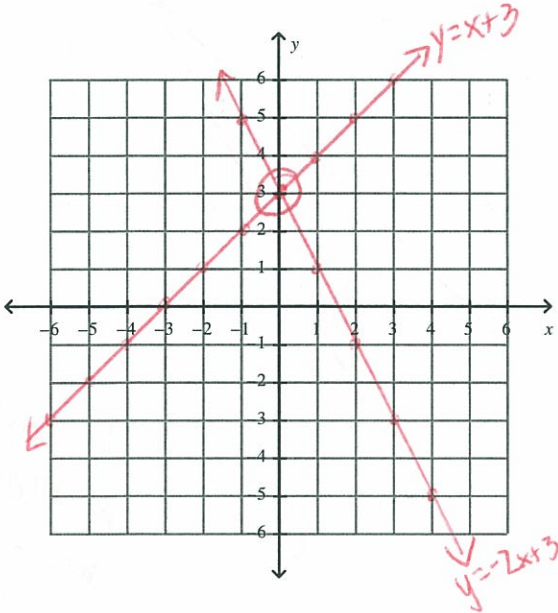
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M8-U5: HW #1 - Graphing Systems of Equations

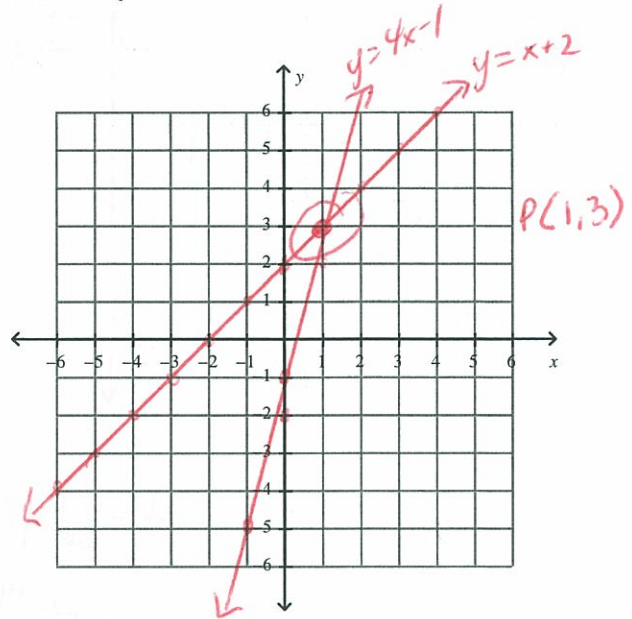
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What is the **solution** to the following system of linear equations?
If there is *no solution* or *infinitely many*, explain why.

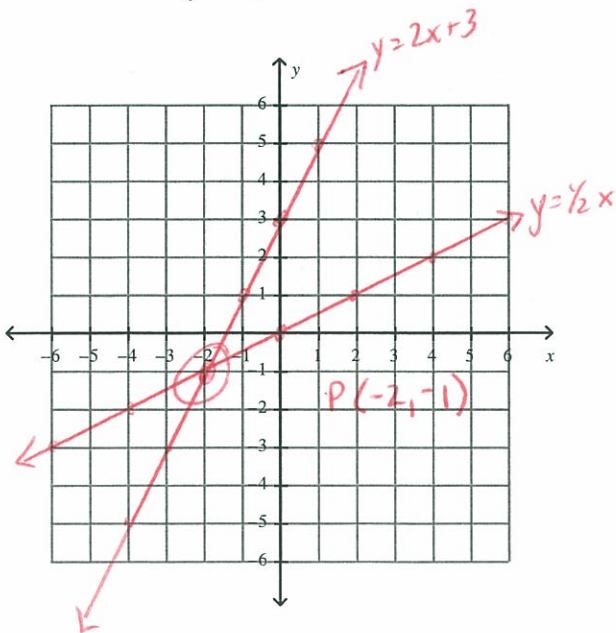
1) $\begin{cases} y = x + 3 \\ y = -2x + 3 \end{cases}$ $P(0, 3)$



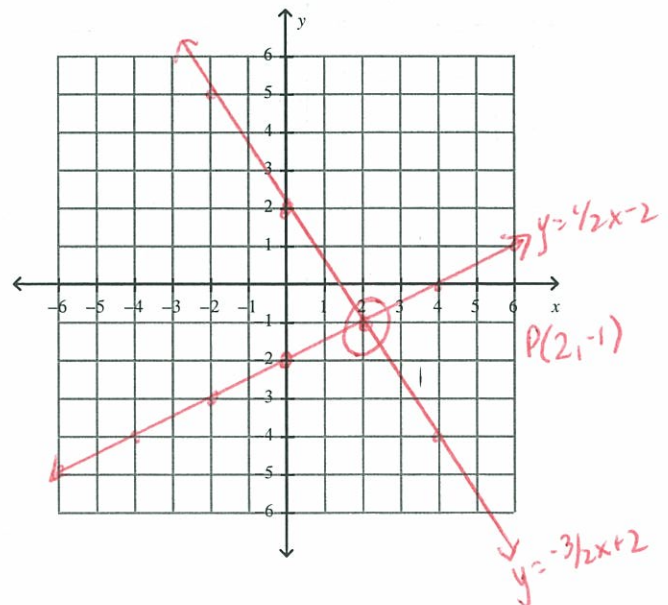
2) $\begin{cases} y = x + 2 \\ y = 4x - 1 \end{cases}$



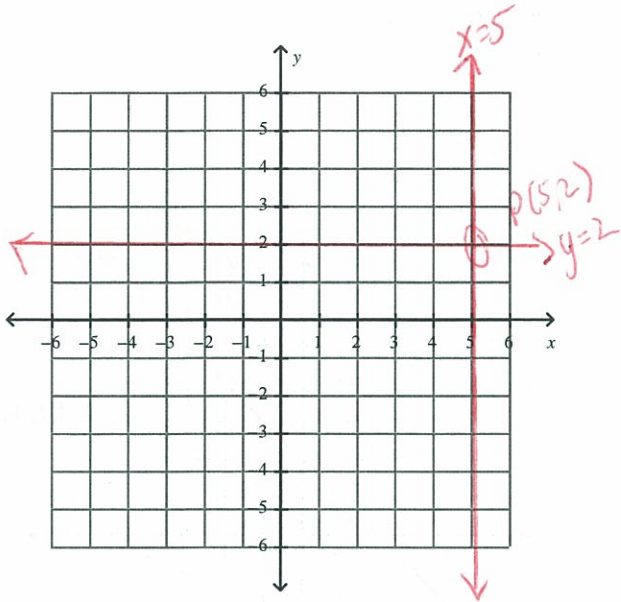
3) $\begin{cases} y = 2x + 3 \\ y = \frac{1}{2}x \end{cases}$



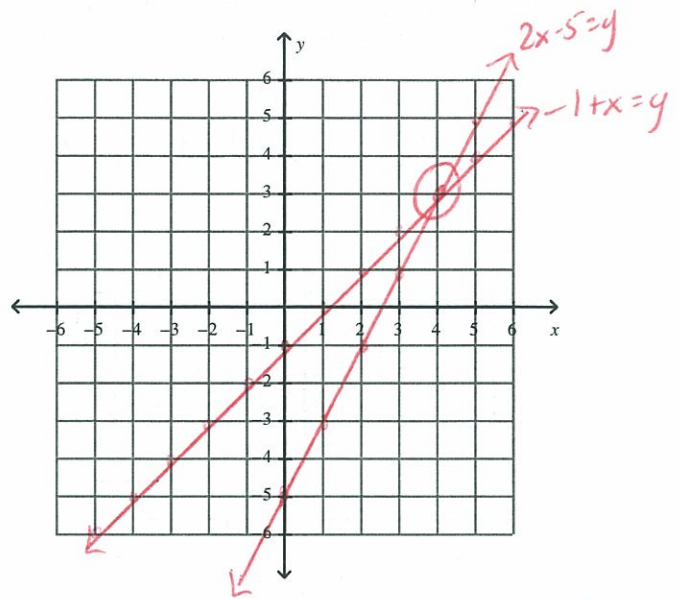
4) $\begin{cases} y = -\frac{3}{2}x + 2 \\ y = \frac{1}{2}x - 2 \end{cases}$



$$5) \begin{cases} x = 5 \\ y = 2 \end{cases}$$

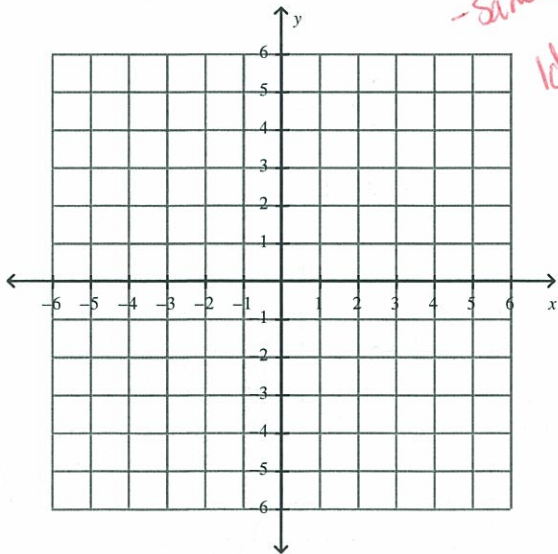


$$6) \begin{cases} 2x - 5 = y \\ -1 + x = y \end{cases}$$



$$7) \begin{cases} y = 2x + 4 \\ y = 2x + 4 \end{cases}$$

*infinitely many solutions
- same eqn
identity.*



$$8) \begin{cases} y = 2x - 2 \\ y = 2x + 5 \end{cases}$$

*No solution,
parallel lines,
because same
slopes.*

