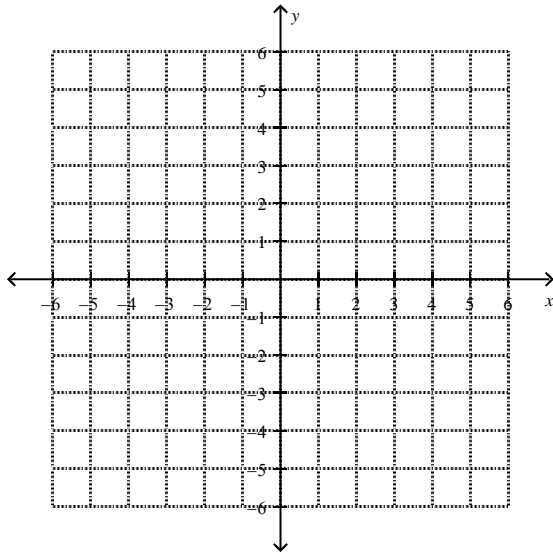


Name: _____

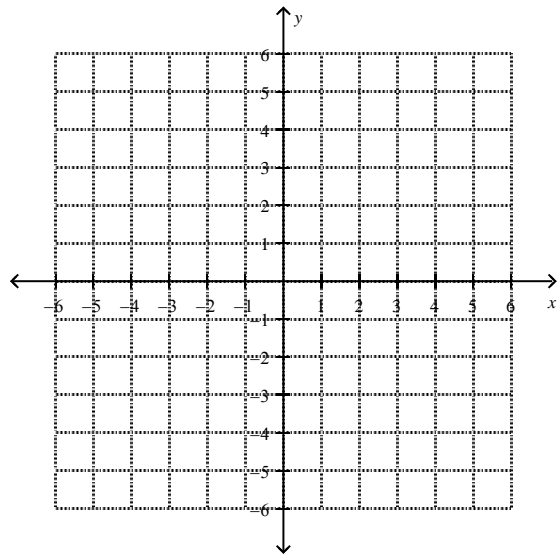
HW #1 – Graphing Systems of Equations

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

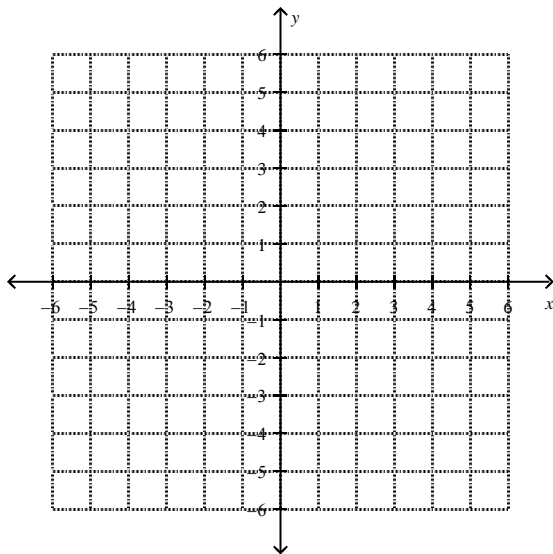
$$1) \begin{cases} y = x + 3 \\ y = -2x + 3 \end{cases}$$



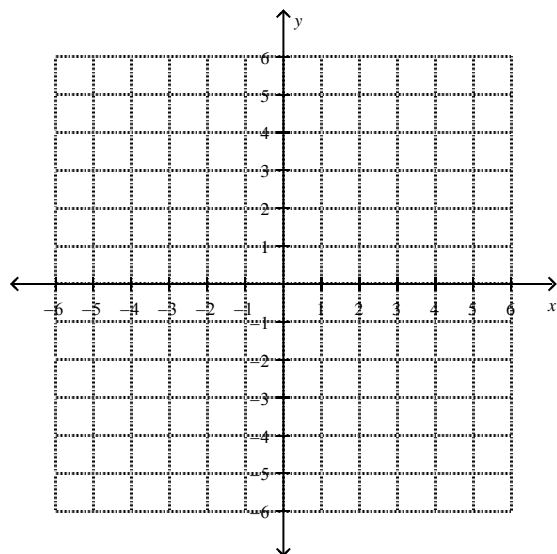
$$2) \begin{cases} y = x + 2 \\ y = 4x - 1 \end{cases}$$



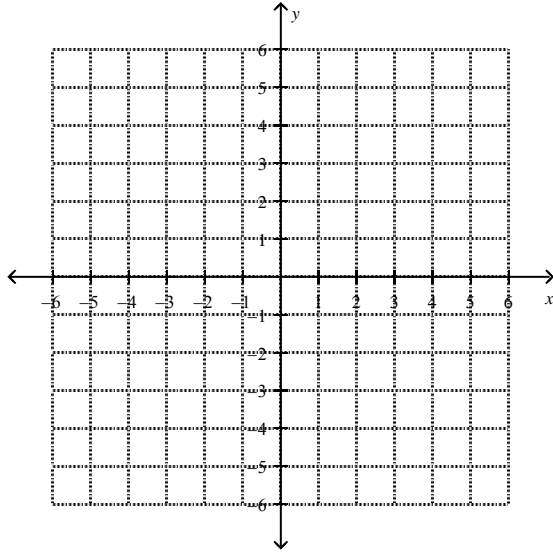
$$3) \begin{cases} y = 2x + 3 \\ y = \frac{1}{2}x \end{cases}$$



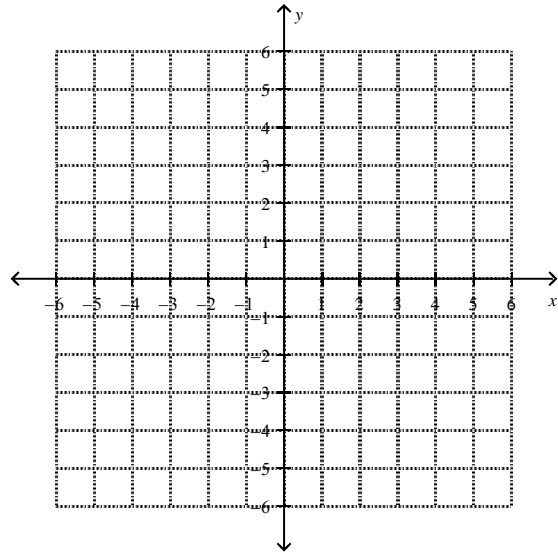
$$4) \begin{cases} y = -\frac{3}{2}x + 2 \\ y = \frac{1}{2}x - 2 \end{cases}$$



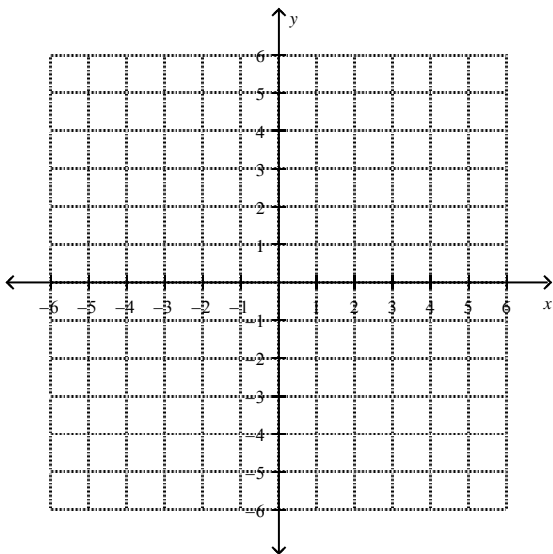
$$5) \begin{cases} x = 5 \\ y = 2 \end{cases}$$



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



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



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

