

Solving one no infinite by graphing

Write the system of linear equations represented in the equation

$$3x - 1 = x + 5$$

$$\begin{cases} y = 3x - 1 \\ y = x + 5 \end{cases}$$

Graph the lines.

Solve the system and indicate the solution on the graph.

$$\begin{array}{r} 3x - 1 = x + 5 \\ -x \quad -x \\ \hline 2x - 1 = 5 \\ +1 \quad +1 \\ \hline 2x = 6 \\ \frac{2x}{2} = \frac{6}{2} \\ x = 3 \end{array}$$

$$y = x + 5$$

$$y = 3 + 5$$

$$y = 8$$

Point of Intersection  
(3, 8)

