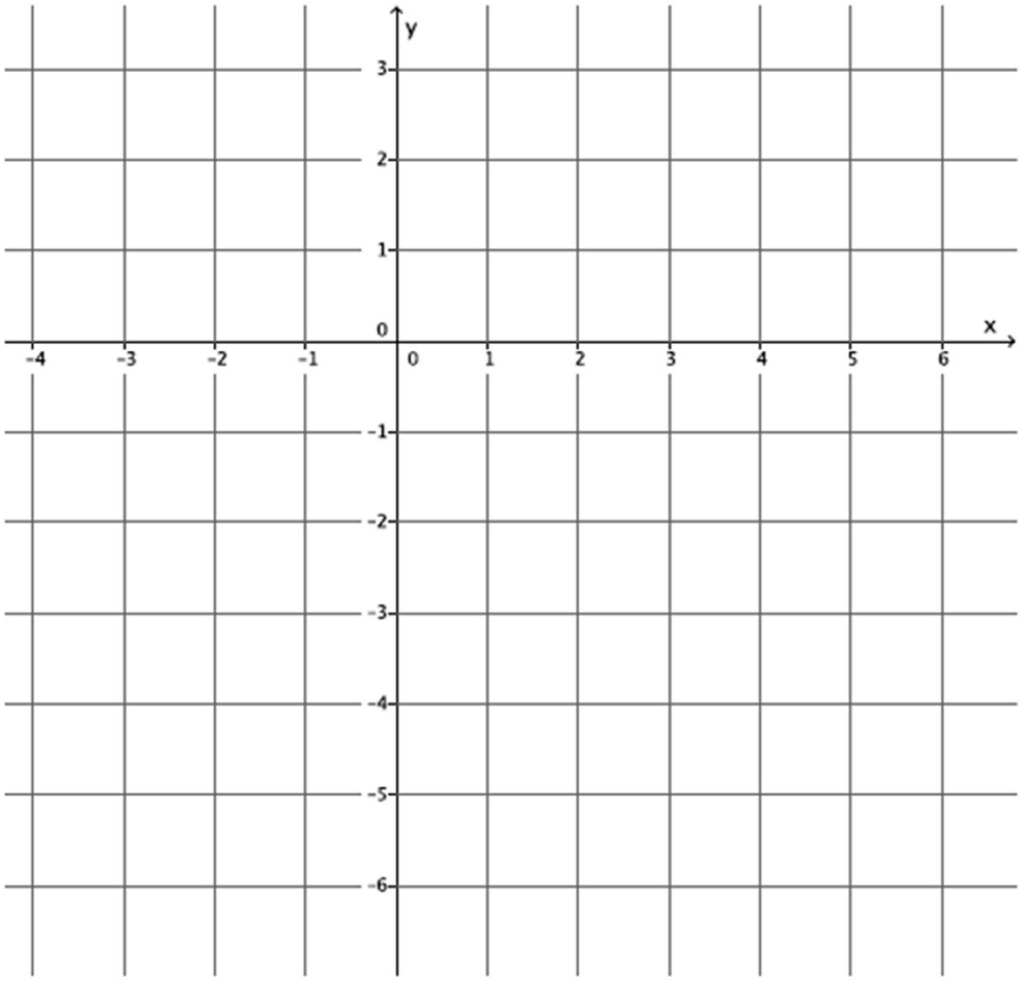
System of Equations (No Solution)

1. Sketch the graphs of the system. $\begin{cases} y = 2x - 5 \\ y = 2x - 1 \end{cases}$



a) Identify the slope of each equation. What do you notice?

b) Identify the y-intercept point of each equation. Are the y-intercept points the same or different?

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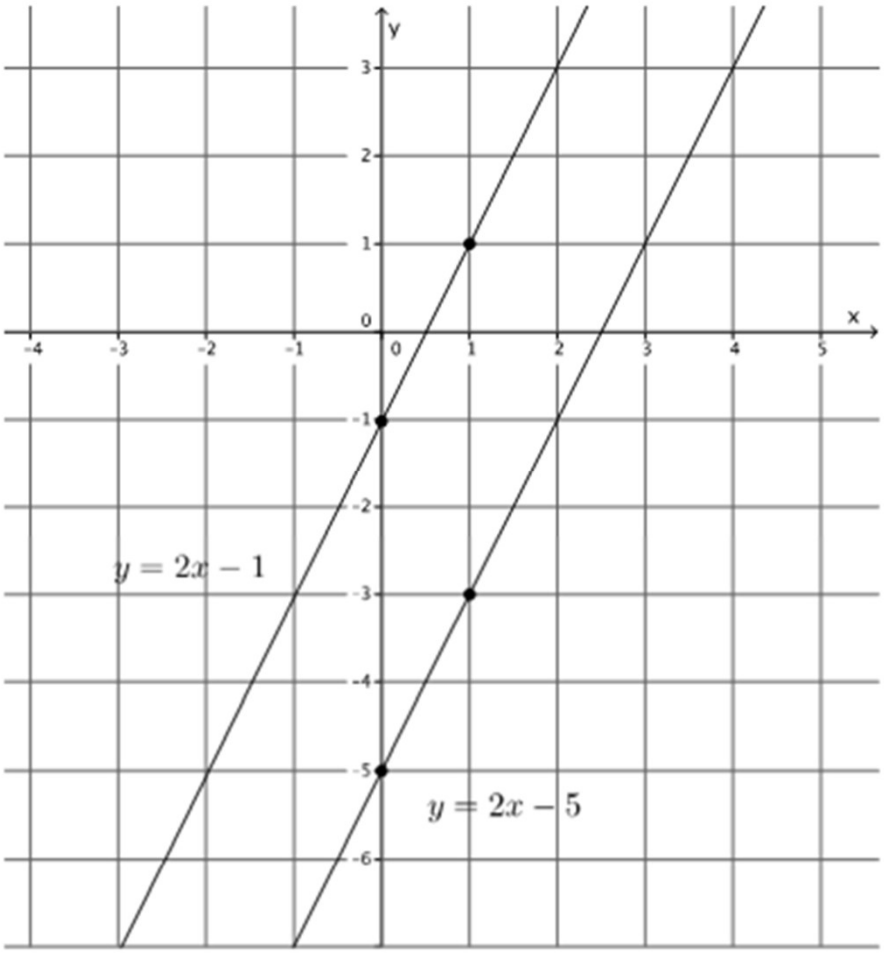

a) Identify the slope of each equation. What do you notice?

The slope of both equations is $\mathbf{2}$. The slopes are equal.

b) Identify the y-intercept point of each equation. Are the y-intercept points the same or different?

The y-intercept points are $(0, -5)$ and $(0, -1)$. The y-intercept points are different.