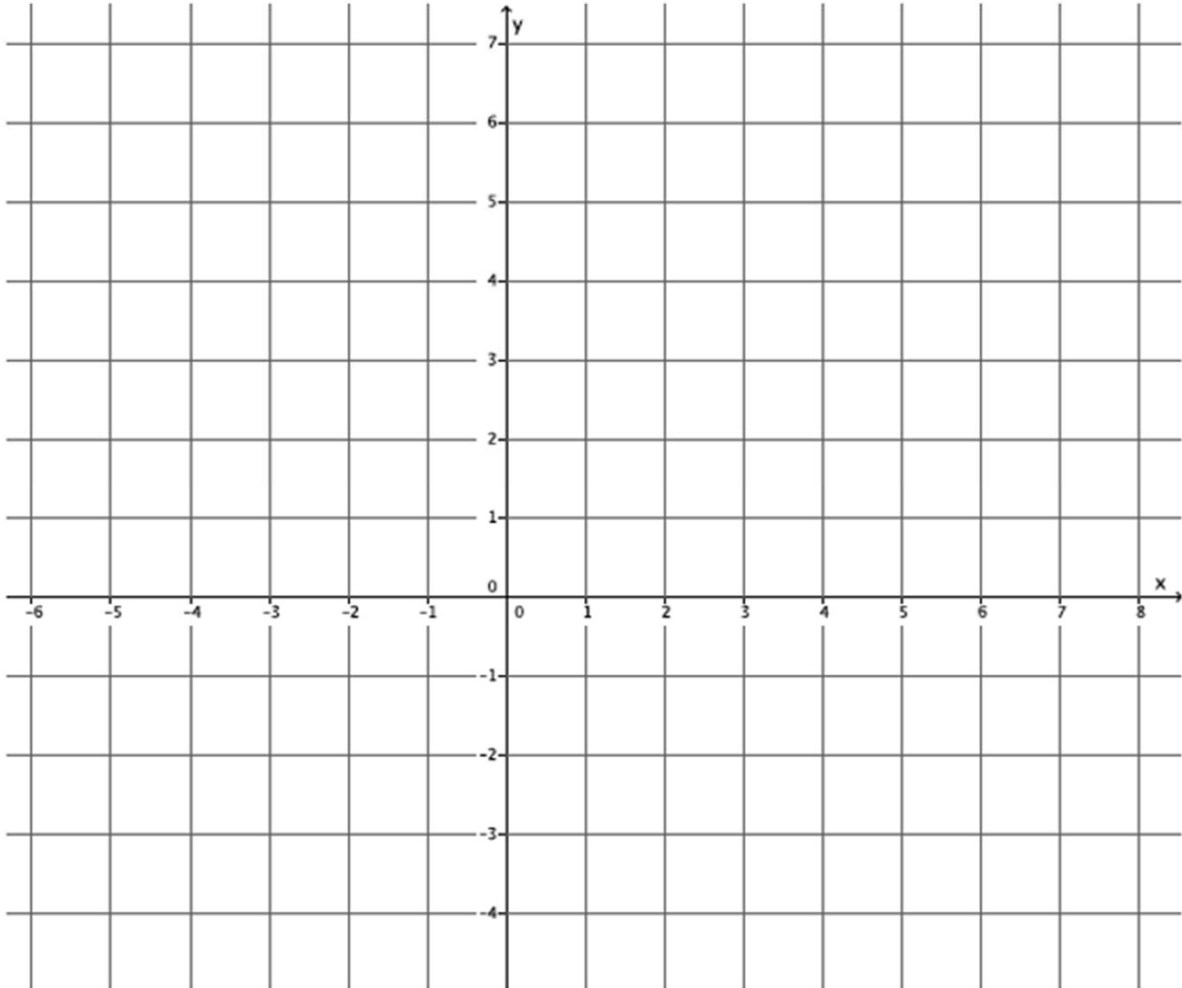


## System of Equations (No Solution)

1. Sketch the graphs of the system. 
$$\begin{cases} y = \frac{2}{3}x + 4 \\ y = \frac{4}{6}x - 3 \end{cases}$$

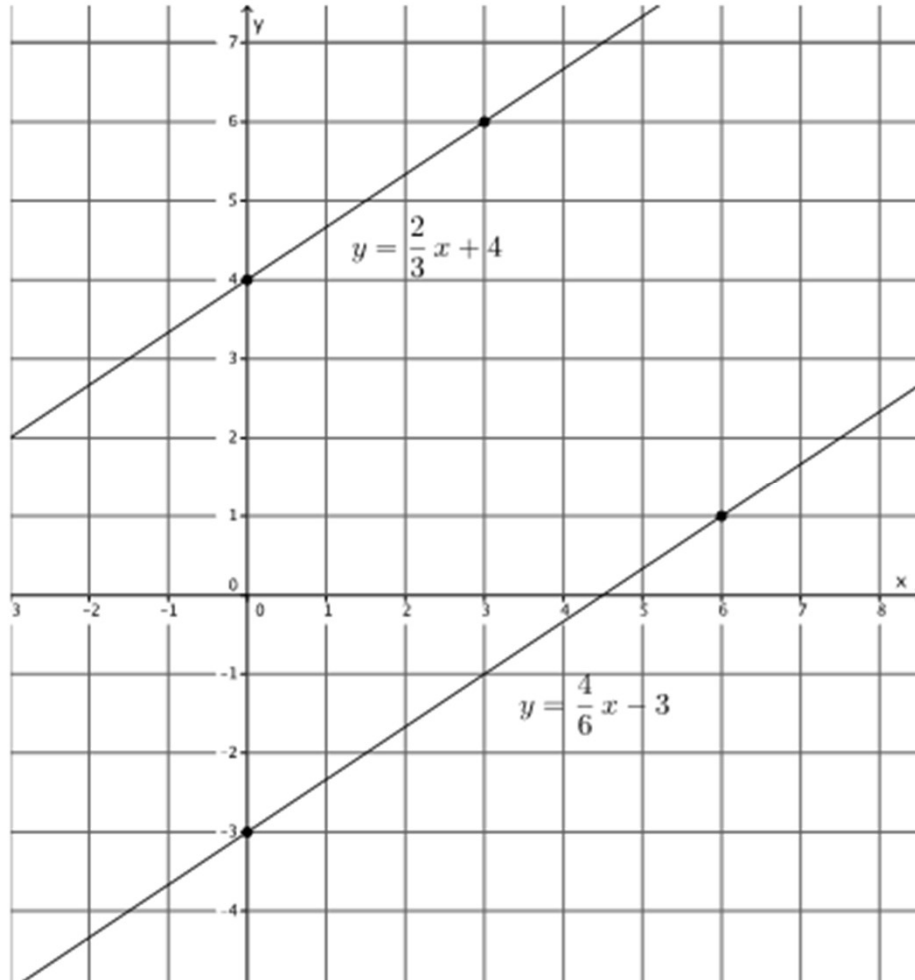


a) Identify the slope of each equation. What do you notice?

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 the first equation is  $\frac{2}{3}$ , and the slope of the second equation is  $\frac{4}{6}$ . 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, 4) and (0, -3). The y-intercept points are different.