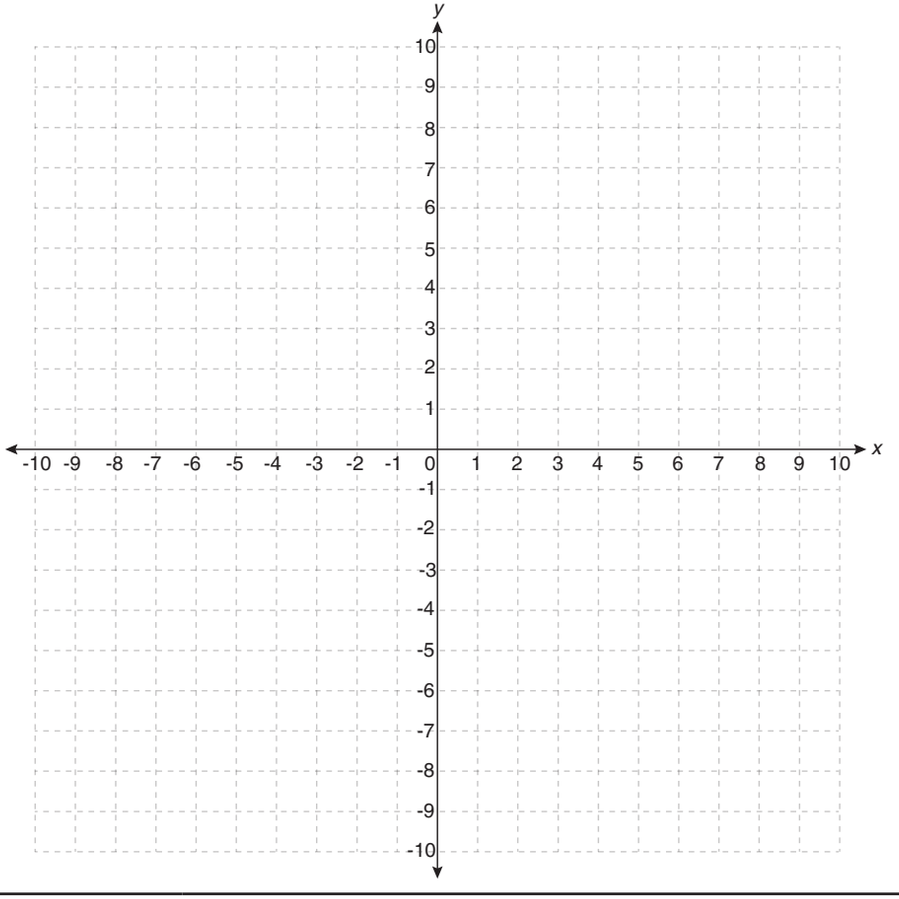
Practice Run

For the linear function $y = -3x-6$,

- determine the x- and y- intercepts algebraically
- sketch its graph
- determine the domain and range

x-intercept	y-intercept	Domain: Range:



Compare your answers.

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- determine the domain and range

x-intercept	y-intercept	Domain: $\{x \mid x \in \mathrm{R}\}$ Range: $\{y \mid y \in \mathrm{R}\}$
$y = -3x - 6$ $(0) = -3x - 6$ $0 + 6 = -3x - 6 + 6$ $6 = -3x$ $\frac{6}{-3} = \frac{-3}{-3}x$ $-2 = x$ $(-2, 0)$	$y = -3x - 6$ $y = -3(0) - 6$ $y = -6$ $(0,-6)$