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## RATE OF CHANGE: GRAPHS

The graph of a linear function is a straight line with a constant rate of change. You can find the rate of change of a linear function, or the slope, using this formula:

$$
\text { Rate of change }=\frac{\text { change in } y}{\text { change in } x}=\frac{\text { rise }}{\text { run }}
$$

To find the rate of change on this graph, pick two points on the line that are easy to identify.
$A$ is at $(0,-4) . B$ is at $(4,4)$.
To move from point $A$ to point $B$, first find the rise. Since the $y$-axis has a scale of 2 , move up four increments of 2 to get a rise of 8 . Since the $x$-axis has a scale of 2 , move right two increments of 2 to get a run of 4 .

Write the rate of change. Make sure to simplify your answer.

Rate of change $=\frac{\text { rise }}{\text { run }}=\frac{8}{4}=\mathbf{2}$


Try it yourself! Find the rate of change of each linear function below. Then circle the greater rate of change in each row. All fractions are written in simplest form.


## RATE OF CHANGE: GRAPHS

Keep going! Find the rate of change of each linear function below. Then circle the greater rate of change in each row. All fractions are written in simplest form.

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