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## Interpret the Slope of a Graph <br> Middle and Upper Level

LESSON GOAL: Be able to quickly eliminate answers and find the slope of a line on a graph.

ISEE Question: The graph of a line is shown.

What is the slope of the line?
A) -3
B) -2
C) $1 / 2$
D) 3

If the line is exactly horizontal, its slope is zero:


STEP 2: Identify whether the slope is greater than, less than, or equal to 1 or -1 .

A perfectly diagonal line (assuming that both axes have the same scale) that moves up as you move to the right has a slope of 1 . If it moves down, it has a slope of -1 .

If the line goes down, its slope is negative:


If the line goes up, its slope is positive:


A line that is steeper than a perfectly A line that is less steep than a diagonal line has a slope that is more perfectly diagonal line has a slope than 1 or less than negative 1 . that is a fraction less than 1 or more than -1 , such as $1 / 2$ or $-1 / 4$.

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STEP 3: Once you've eliminated the incorrect answers, you might be down to the correct answer already. If not, locate two points that fall perfectly along the axes. For example, in the original question, the points $(0,0)$ and $(1,-3)$ fall exactly along the grid lines.


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[^0]:    STEP 4: Use the formula for finding the slope from two points (link) to determine the
    $\frac{\text { rise }}{\text { run }}$ $-3 / 1=-3$. $\boldsymbol{A}$ is the correct answer.

