

4 4 practice b graphing functions gazelleore

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4.4 Practice B Graphing Functions: Gazelleore

Question 1:

Graph the function: $f(x) = 2x + 1$

Answer:

To graph this function, plot two points:

- (0, 1)
- (1, 3)

Connect the points with a straight line.

Question 2:

Find the y-intercept of the line: $y = -3x + 2$

Answer:

The y-intercept is the point where the line crosses the y-axis. To find it, set x to zero:

$$y = -3(0) + 2$$

$$y = 2$$

Therefore, the y-intercept is (0, 2).

Question 3:

Determine the slope of the line: $2x - y = 6$

Answer:

To find the slope, rewrite the equation in slope-intercept form:

$$y = 2x - 6$$

The slope is the coefficient of x , which is 2.

Question 4:

Graph the function: $f(x) = |x - 3|$

Answer:

This function is a piecewise function:

- For $x < 3$, $f(x) = -(x - 3) = -x + 3$
- For $x \geq 3$, $f(x) = x - 3$

Graph the linear functions for both intervals and connect the lines at $x = 3$.

Question 5:

Find the domain and range of the function: $f(x) = \sqrt{x + 2}$

Answer:

- **Domain:** The domain of this function is all real numbers greater than or equal to -2, since the square root of a negative number is undefined.
- **Range:** The range of this function is all non-negative real numbers, since the square root of a positive number is always non-negative.

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