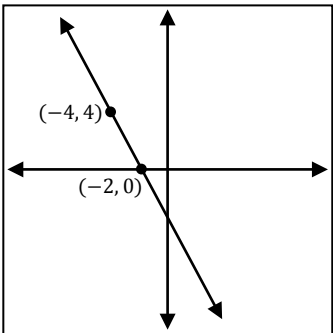


Lani needed to find the symbolic representation for the linear function graphed below. She selected choice B – **a wrong choice**.

Multiple Choice:
Which equation corresponds to the linear function represented in the graph?

- A. $f(x) = -3x - 6$
- B. $f(x) = -3x - 2$
- C. $f(x) = -2x - 6$
- D. $f(x) = -2x - 4$



1. Show or explain why Lani’s selection is not the correct representation for the graph.
2. Which of the other multiple choice options is the correct equation for the graph shown above?

A $f(x) = -3x - 6$
 B $f(x) = -3x - 2$
 C $f(x) = -2x - 6$
 D $f(x) = -2x - 4$

3. Justify your selection by evaluating the equation you chose for $x = -4$ and $x = -2$. Show your work.

$$f(-4) =$$

$$f(-2) =$$

4. Determine the y-intercept for the graph of $f(x)$.
 - a. First, state the y-intercept using function notation: _____
 - b. Second, state the y-intercept as an ordered pair: _____