

Period:



Describe the line: It is HORIZONTAL

Tell me about the y-values anywhere on the line: The value is always 2.

Does the line EVER touch the x-axis? NO. So, we can say it is parallel to the x-axis.

Where does the line cross the y-axis? (0, 2)

What is the slope of this line? ZERO

For any HORIZONTAL line, the slope of the line will equal ZERO and the equation will be **Y = WHATEVER NUMBER THE Y-INTERCEPT IS**

In conclusion, the equation of this line is y = 2.



Remember the trick... A ZERO SLOPE LINE MAKES A "Z" WITH THE AXIS

Plot the points (-3, 5), (-3, -4), (-3, -8) and draw the line that connects them

Describe the line: It is VERTICAL

Tell me about the x-values anywhere on the line: The value is always -3.

Does the line EVER touch the y-axis? NO. So, we can say it is parallel to the y-axis.

Where does the line cross the x-axis? (-3, 0)

What is the slope of this line? UNDEFINED OR NO SLOPE

For any VERTICAL line, the slope of the line will be **UNDEFINED**, and the equation will be **X = WHATEVER NUMBER THE X-INTERCEPT IS**

In conclusion, the equation of this line is x = -3.



Remember the trick... AN UNDEFINED (NO) SLOPE MAKES A "U" OR "N" WITH THE AXIS.

1. Write the equation of the line parallel to the x-axis with a y-intercept of -6.

2.

The line x = 1 is a ______ line, with a(n) ______ slope that is parallel to the ____axis.