When you are graphing points, it is important to remember that $\boldsymbol{x}$ is the distance left-right from origin ( 0,0 ) -the center point on the coordinate plane-, while $\boldsymbol{y}$ is height up-down from the origin.

1. Plot each point on the axes shown to the right. Then, label each point with its name (the given letter).

$$
A(0,2)
$$

A moves 0 units left-right (stays at center), and +2 units up-down ( + is up)

$$
B(-3,7)
$$

A moves -3 units left-right (- is left), and +7 units up-down ( + is up)

$$
\begin{array}{ll}
C(0,-8) & D(6,8) \\
E(5,0) & F(-9,0) \\
G(-4,-6) & H(4,-2)
\end{array}
$$



Graph each relation (set of $x-y$ points) given below as a continuous function (connect the points with a line or a curve, and put arrows on each end of the line or curve to show that it continues forever in both directions).

Does the relation have a consistent slope? If yes, what is it?

3. | $x$ | -4 | -3 | -2 | -1 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | 0 | -3 | -4 | -3 | 0 |



Does the relation have a consistent slope? If yes, what is it?



Does the relation have a consistent slope? If yes, what is it?

## For each equation, determine 5 points using the provided input values ( $x$ 's). Then, graph each equation using those points.



