

Name: _____

One Function, Four Ways

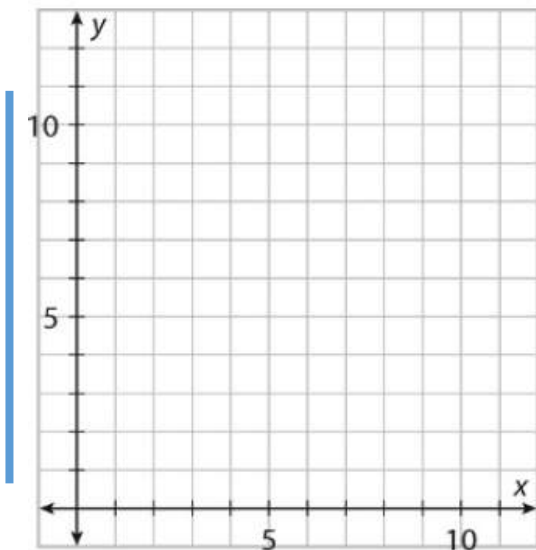
STORY + EQUATION

The function $h(d) = 2d + 1.3$ relates the h height (ft.) of the water in a fountain to the d diameter (in.) of the pipe carrying the water.

What does $h(1) = 3.3$ mean?

Make a TABLE

GRAPH- Label the axes!



ANALYSIS

Use your graph to **estimate** the height of the water if the pipe has a diameter of 3.5 in.

Now use your equation to find the **exact** height of the water if the pipe has a diameter of 3.5 in.

Will this graph have any negative values?

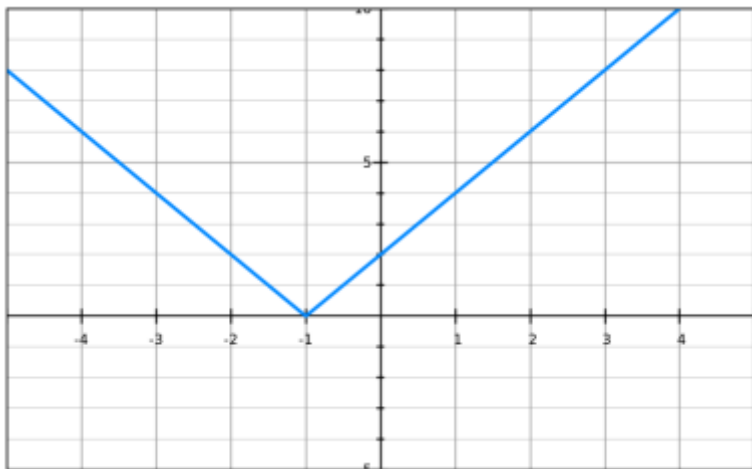
1. Given: $f(x) = 7x + 4$.

a) *What does it mean* if I ask you to find $f(4)$?

b) Find $f(4)$.

c) Find the value of x so that $f(x) = 11$

2. This is the **graph** of $f(x) = |2x + 2|$. It shows all the possible input/output solutions of this function.



a. **Find $f(3)$ using the given function.**

b. **Using the graph, find $f(3)$ and write the value below.**

c. **Using your graph, find**

x when $f(x)=2$.

d. Is the ordered pair (3, 1) a solution to this function? Explain how you know.