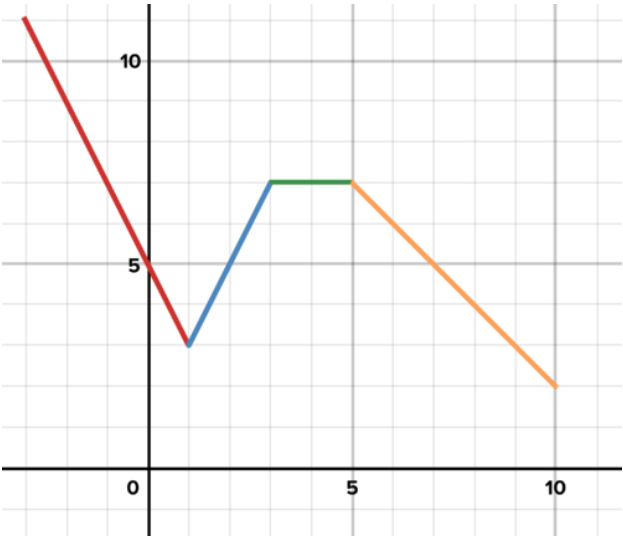




Use the graph to the left to answer the following questions:

Domain	
Range	
Maximum	
Minimum	
Increase	
Decrease	
Decrease	
Constant	
x-int(s)	
y-int	
Continuous?	
$f(5) =$	
Find x if $f(x + 4) = 2$	

Find the PW equation for the graph above.

Solve for the unknown variable.

a. $|4x + 3| = 19$

b. $-3|x + 3| - 2 = -5$

c. $|x + 12| > 3$

d. $-2|x + 1| - 1 < -11$

Write the equation of the absolute value function given the PW function's equation.

e. $\begin{cases} (x + 3) - 1, & x > -3 \\ -(x + 3) - 1, & \leq -3 \end{cases}$

f. $\begin{cases} -(x + 9) - 3, & x > -9 \\ (x + 9) - 3, & x \leq -9 \end{cases}$

g. $\begin{cases} 2x - 7, & x > 5 \\ -2x + 13, & x \leq 5 \end{cases}$

h. $\begin{cases} (x + 6)^2 + 7, & x > -6 \\ -(x + 6)^2 + 7, & x \leq -6 \end{cases}$

i. $\begin{cases} (x - 4)^2 + 1, & x > 4 \\ -(x - 4)^2 + 5, & x \leq 4 \end{cases}$

Make sure you would be able to graph a - i