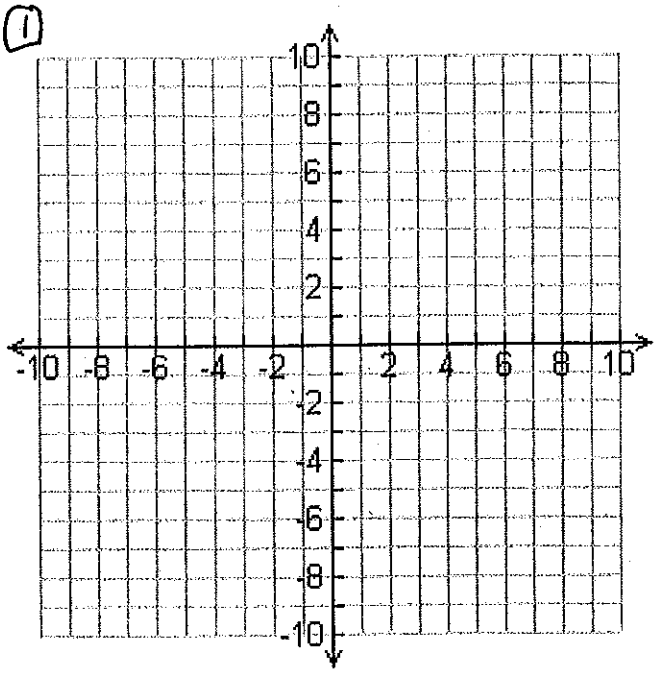
AFM

Piecewise Functions
ACT # 37

Name _____

$$f(x)=\begin{cases}-x-8, 0<x\le 3\\ -x^2+7, -2\le x\le 0\\ |x|, x<-2\end{cases}$$

(1)



(1) Graph the function.

(2) What is the Domain?

(3) Evaluate $f(0)$

(4) Evaluate $f(2)$

(5) Evaluate $f(-3)$

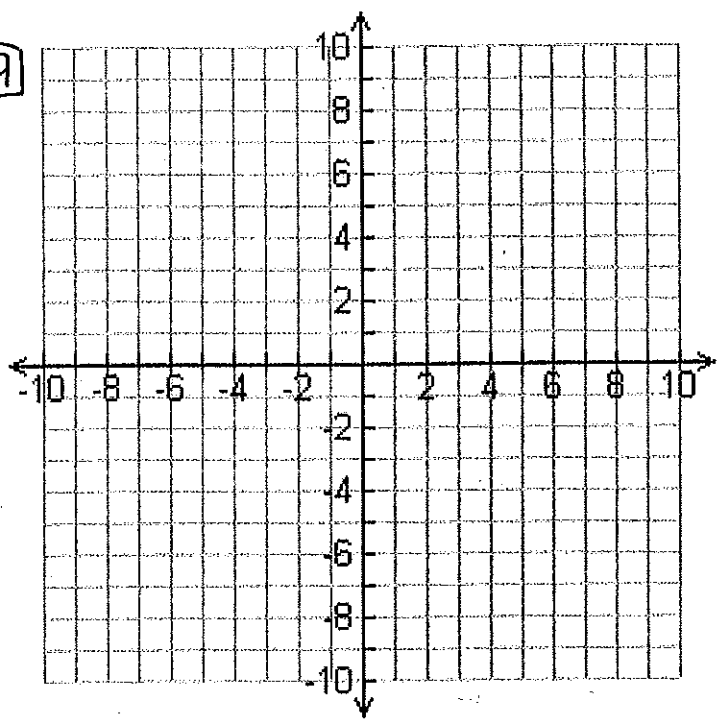
(6) Evaluate $f(-10)$

(7) Evaluate $f(-1)$

(8) Evaluate $f(3)$

$$f(x)=\begin{cases}x^2-1 & x\le 0\\ 2x-1 & 0<x\le 5\\ 3 & x>5\end{cases}$$

(9)



(9) Graph the function.

(10) What is the Domain?

(11) Evaluate $f(4)$

(12) Evaluate $f(-7)$

(13) Evaluate $f(1)$

(14) Evaluate: $f(-4)$

(15) Evaluate: $f(10)$

(16) Evaluate: $f(20)$