Standard 1A Opportunity today!!!

Grab the review off the front table

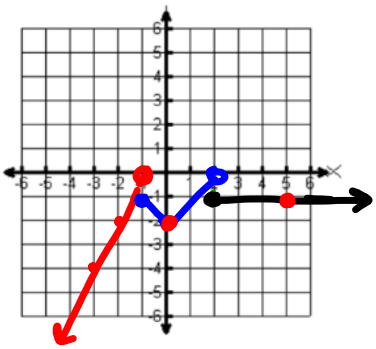
12 minutes maximum

Standard 1A Review

Name:_____Hr: ____

1. Sketch a graph of the piecewise function below.

$$f(x)=\begin{cases}2x+2, & x<-1\\ |x|-2, & -1\le x<2\\ -1, & x\ge 2\end{cases}$$



Using the function above find the following values given.

2. $f(5)=-1$ (5, -1)

3. $f(0)=-2$ (0, -2)

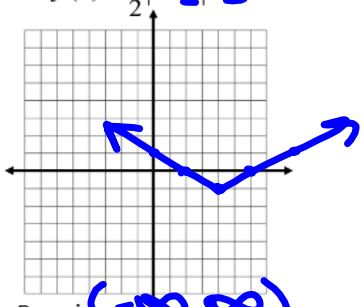
Describe the transformation(s) done to the parent function $f(x)=|x|$.

4. $g(x)=-2|x-4|+3$

reflect, stretch by 2, → 4, ↑ 3

Graph the following function and state the domain and range.

5. $f(x)=\frac{1}{2}|x-4|-1$

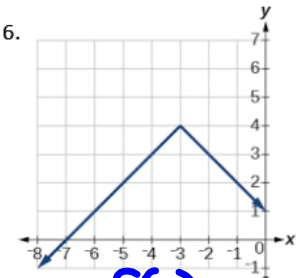


Domain: $(-\infty,\infty)$

Range: $[-1,\infty)$

Write the equation of the absolute value function and state the domain and range.

6.



Equation: $f(x)=-|x+3|+4$

Domain: $(-\infty,\infty)$

Range: $(-\infty,4]$

Write the equation of the described function.

7. An absolute value function shifted left 2 and down 1.

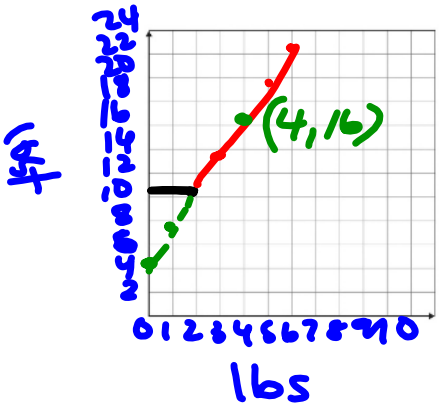
$f(x)=|x+2|-1$

8. An absolute value function shifted right 1, reflected over the x-axis and shifted up 4.

$f(x)=-|x-1|+4$

9. A booth at the farmers market is having a sale on homemade candy. You can buy up to 2 lbs for a flat cost of $10.00. After that, the candy cost $3/lb for each additional pound.

Write and graph a piecewise function that represents the cost for candy up to 6 pounds.



$$f(x)=\begin{cases}10, & x\ge 2 \quad 0<x\le 2\\ 3x+4, & 2<x\le 6\end{cases}$$

Standard 1A - Opportunity 1

Keep eyes on own paper - cover answers as you go!

When finished:

Double check answers
Turn paper in basket
Work on hw
Read a book

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$$g(x) = \begin{cases} 3, & \text{if } x < -1 \\ -x + 4, & \text{if } -1 \le x < 1 \\ -2, & \text{if } 1 \le x < 4 \end{cases}$$

positive 4, not -4

NO PHONES