## Quizızz

NAME: $\qquad$

## Homework 8.1 due Mon 4/5 *3 Require Graph Photo attached*

CLASS: $\qquad$
DATE : $\qquad$

16 Questions
1.


What is the range of the function?*Hint: Range is the $y$ values where this parabola is graphed
b) $y \leq 3$
a) $y \leq 2$
c) $y \geq 2$
2.


What is the domain of the function when this parabola is increasing?
d) $y \geq 3$ increas
a) $x<2$
c) $x<3$b) $x>2$d) $x>3$
3.
a) $x<2$c) $x<3$
4.

a) Vertex is ( $0,-.5$ )c) The vertex is also a minimum

What is the domain of the function when this parabola is decreasing?
b) $x>2$d) $x>3$

Identify the vertex of this function and also indicate whether it is a maximum or minimum \{mark both answers \}
5.


What is the range of this function?
a) $y \geq-3$c) All real numbers
e) $y \leq-3$
6.


If the vertex is at $(-3,-1)$, what are the correct domain values when this function is increasing or decreasing? \{mark two\}
a) $x<-3$ when the function is decreasing
c) $x>-3$ when the function is decreasing
b) $x<-3$ when the function is increasing
d) $x>-3$ when the function is increasing
7.

a) $(-2,0)$
$\square$ c) $(0,8)$
8.

a) minimum
c) neither
b) $(-3,-1)$
d) $(-4,0)$

If the vertex is at $(-3,-1)$, is this a minimum or a maximum?
b) maximum
9.
a) The vertex of this function is $(-1,4)$c) A zero is $(-3,0)$e) This function has a minimum
10.

b) The $y$-intercept is $(0,-1)$
d) This graph has a minimum
11. $f(x)=-3 x-11$

Which of the following statements are true about the function?
a) The function is linear
c) The function is decreasing
e) The function is increasing
b) The function is quadraticd) The function is opening downward
12. $f(x)=3 x^{2}+8 x-1$ Which of the following are true about the function?
a) The function is linear
c) The function opens downward, thus has a maximum
e) The function is increasing
b) The function is quadratic $\square$ d) The function opens upward, thus has a minimum
13. $f(x)=\frac{3}{8} x+12$ Which of the following are correct statements for the function
a) The function is linearb) The function is quadratic
c) The function is increasing
d) The function is decreasinge) The function is opening upward
14. $f(x)=x^{2}-5 x+2$ Using technology (Desmos or Graphing Calculator), determine the vertex of the functionATTACH A PHOTO OR SCREEN SHOT OF THE GRAPH
a) $(0,2)$
b) $(3,1)$
c) $(2.5,-4.25)$
d) $(-2.5,0)$
15. $f(x)=3 x^{2}+5$ Using technology (Desmos or Graphing Calculator), determine the vertex of the functionATTACH A PHOTO OR SCREEN SHOT OF THE GRAPH
a) $(0,5)$
b) $(3,0)$
c) $(3,5)$
d) $(-4,2)$
16. $f(x)=-8 x^{2}+3 x+7$ Using technology (Desmos or Graphing Calculator), determine the vertex of the functionATTACH A PHOTO OR SCREEN SHOT OF THE GRAPH
a) $(0,7)$
b) $(-8,7)$
c) $(2.2,5.1)$
d) $(0.2,7.3)$

