

taking atrip

20 m h is 30 m/n

40 miles in 40 min

stopped for food for 20ml.

100 m:les 60 min:

and speed = total dist

and speed = total time.

= 160

150

Algebra 1

Our Goal: To finish reviewing for the Unit 8 test

Warm Up: Review topics

Today's Homework:

- Online practice test
- There is iready due this week

<u>Previous Homework</u> None

Chapter 8 Test Topics

- · Characteristics of a quadratic function
 - > Vertex
 - > Equation of axis of symmetry
 - > Interval where increasing / decreasing
 - > y-intercept
 - > x-intercept(s) or zeros
 - > minimum or maximum value
 - > Domain / Range
 - > Sketching the graph
- · Even and odd functions
- · Finding the zeros and vertex of a parabola
- · Writing the equation of a quadratic function

 $f(x) = -2 (x-1)^2 + 6$

vertex: (, 6)

equation of axis of symmetry:

interval where increasing: X <

interval where decreasing: 🔨 🧎

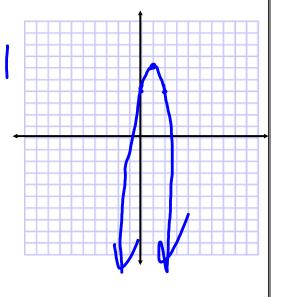
domain: (1) reg)#5

range: y ≤ 6

minimum of maximum

min/max value:

sketch the graph



Is the function even, odd, or neither?

$$f(x) = x + 9$$

$$f(x) = -x + d$$



Is the function even, odd, or neither?

g(x) =
$$x^3 + 3x$$

$$g(x) = (-x) + 3(-x)$$

Write the equation of the quadratic function with a vertex of
$$(-2,4)$$
 that passes through $(0,2)$

$$y = a(x-h)^{2} + k$$

$$y = -\frac{1}{2}(x+2) + 4$$

$$y = a(x+2) + 4$$

Write the equation of the guadratic function with x-intercepts of
$$-1$$
 and 7 that passes through $(3, 8)$

$$y = a(x-b)(x-c)$$

$$y = a(x+l)(x-7)$$

$$y = a(3+l)(3-7)$$

$$y = a(4+c)$$

$$y$$

