Algebra 1

Our Goal: To review for the Unit 8 test

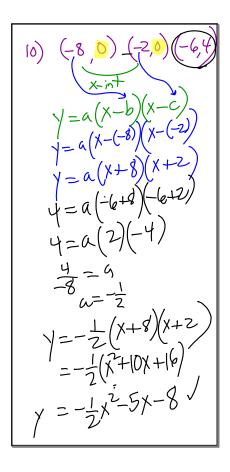
<u>Warm Up</u>: Please have your homework out for checking

Today's Homework:

· 8.1-8.6 Chapter Review, p.470-472: 1-30

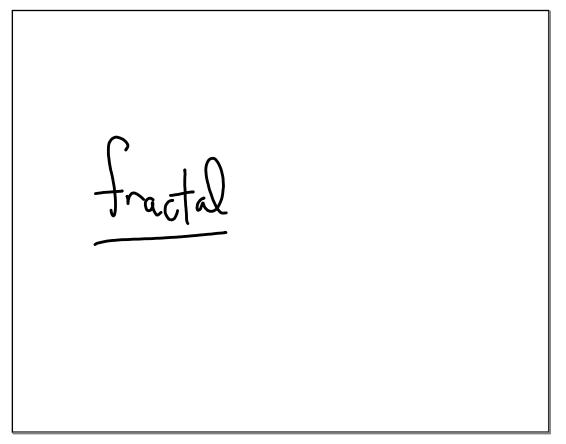
· i-Ready due Friday

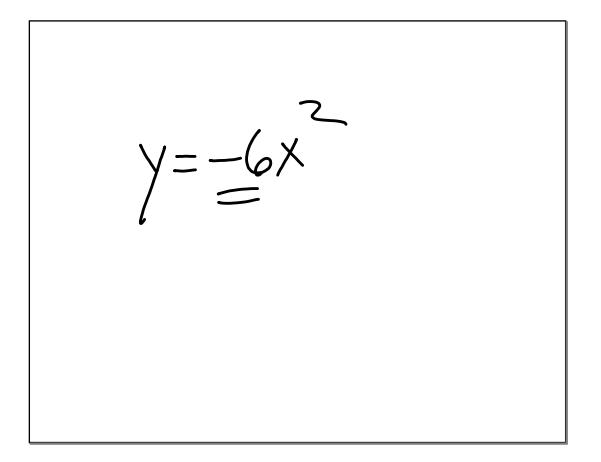
<u>Previous Homework</u> 8.1-8.6 Review, p.473: 1-17



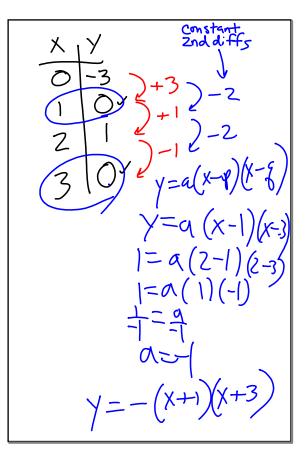
(4,0)(1,9) $\gamma = \alpha(x+x^2)+k$ $\begin{array}{l} y = \alpha(x-1)^{2} + q & y = -(x-1)^{2} + q \\ 0 = \alpha(y-1)^{2} + q & y = -(x-2x+1) + q \\ 0 = -\alpha(y-1)^{2} + q & y = -x^{2} + 2x + 1 + q \\ y = -x^{2} + 2x + 8 \end{array}$

 $\gamma = \frac{1}{2}\chi^2$





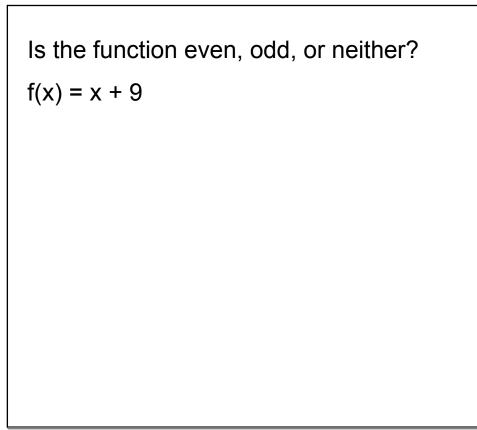
X 1 Xد ۲۷۰ 0 $\sqrt{-(1-1)}$

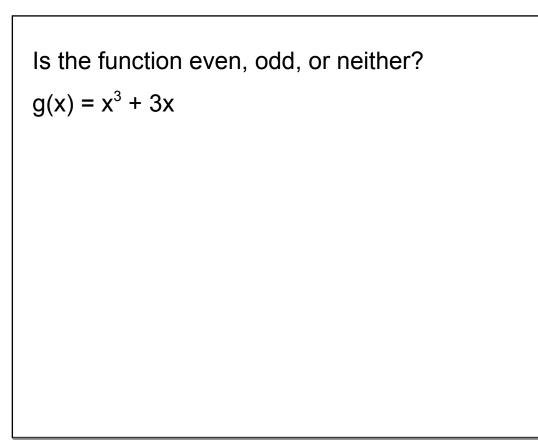


Chapter 8 Test Topics

- 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: (,) equation of axis of symmetry: interval where increasing: interval where decreasing: domain: range: minimum or maximum min/max value: sketch the graph





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

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

domain:

range:

zeros:

width compared to y=x² narrower / same / wider

equation of the function in vertex form:

