## Written Homework Section 3.3

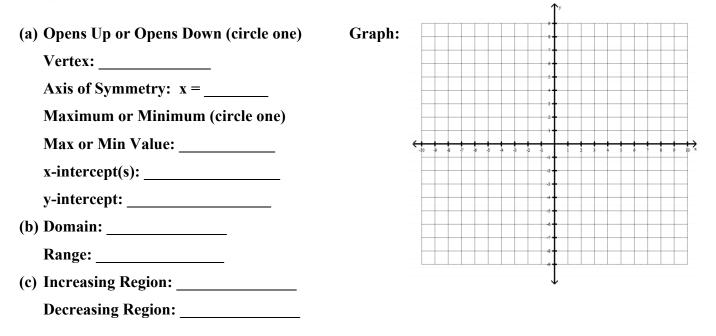
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Name: \_\_\_\_\_

Due: \_\_\_\_\_

For the given quadratic function: (a) Create a graph by determining whether it opens up or down, and by finding its vertex, axis of symmetry, and intercepts (if any). (b) Determine the Domain and Range of the function. (c) Determine where the function is increasing and where it is decreasing. Verify your results by using a graphing utility.

**44.**  $f(x) = 2x^2 + 5x + 3$ 



**48.** Determine the quadratic function whose graph is given.

