

Name _____

8A; Algebra 1

Date _____

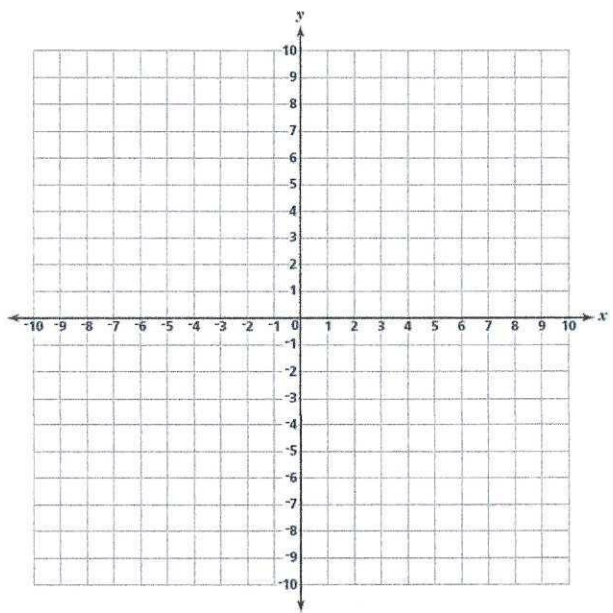
Period _____

Homework

For #'s 1-4:

- a) Write the function in vertex form (use completing the square)
- b) Find the vertex of the parabola
- c) Graph the parabola

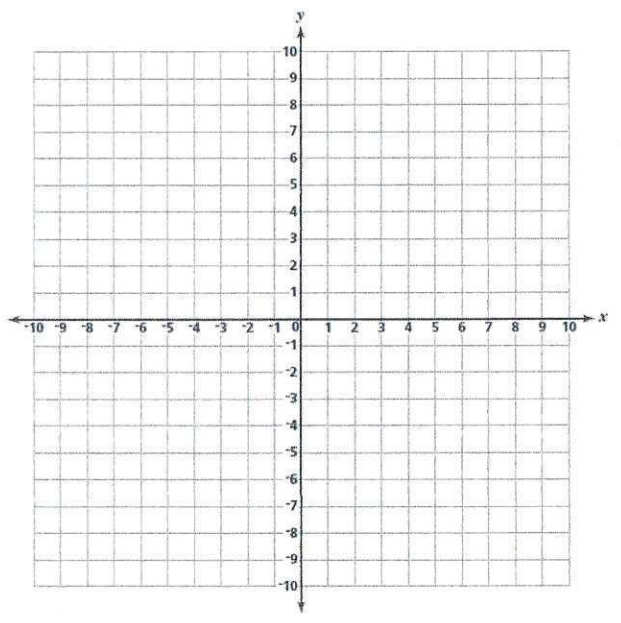
1) $f(x) = x^2 + 4x - 1$



New Equation: _____

Vertex: _____

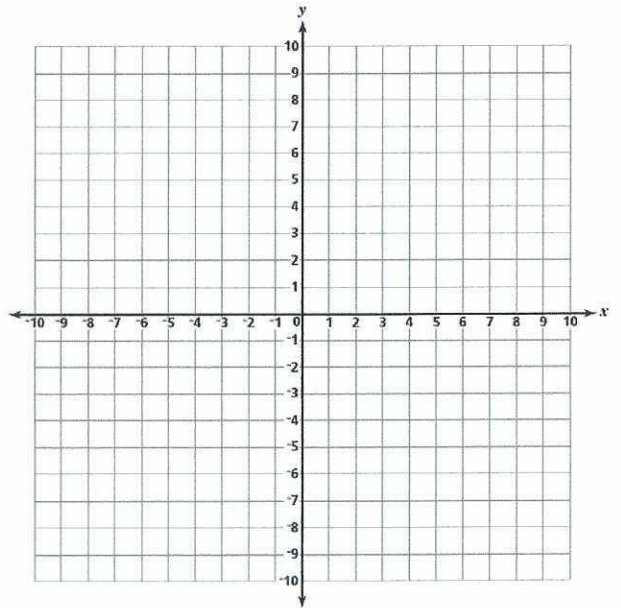
2) $f(x) = x^2 - 4x - 3$



New Equation: _____

Vertex: _____

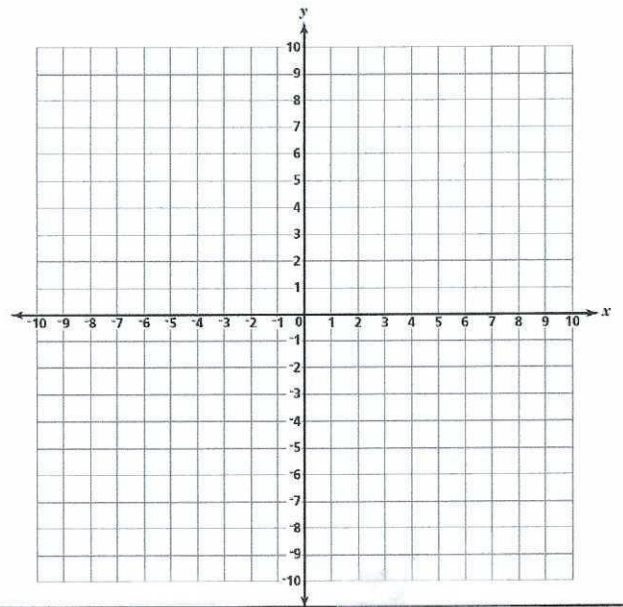
3) $f(x) = x^2 + 6x + 7$



New Equation: _____

Vertex: _____

4) $f(x) = x^2 - 10x + 19$



New Equation: _____

Vertex: _____

#'s 5 - 8 : Write a rule (equation) in vertex form for the quadratic function whose graph is given.

(Hint: find the vertex first!)

