

9.1 Graphing Quadratic Functions

Period

Find the axis of symmetry. Find the vertex. create a table of 5 values Then sketch the graph of each function. Identify the vertex as a maximum or a minimum and give the max value or min value.

$$1) \ y = 4x^2 + 32x + 60$$

$$2) \quad y = -2x^2 - 8x - 9$$

$$3) \quad y = 2x^2 - 8x + 7$$

$$4) \quad y = 2x^2 + 16x + 30$$

$$5) \quad y = x^2 - 2x + 5$$

$$6) \ y = -3x^2 + 18x - 28$$

$$7) \quad f(x) = -x^2 - 8x - 13$$

$$8) \quad f(x) = 2x^2 - 12x + 22$$

$$9) \quad f(x) = x^2 - 6x + 11$$

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