



Unit 1 Review

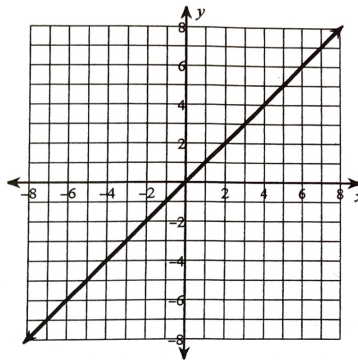
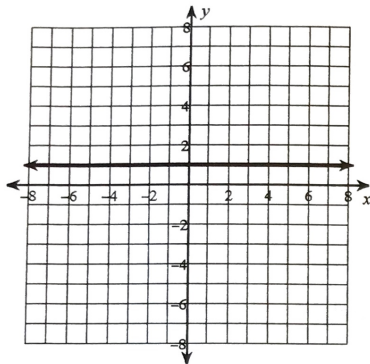
For each graph below, give the parent function name and equation.

1) name: _____

2) name: _____

equation: _____

equation: _____

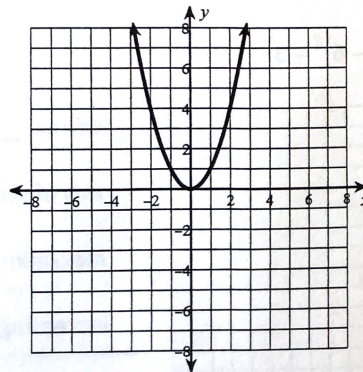
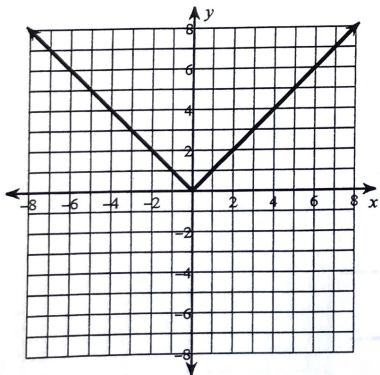


3) name: _____

4) name: _____

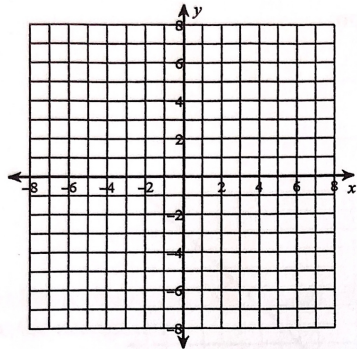
equation: _____

equation: _____



Identify the properties of each parabola. Then sketch the graph.

5) $f(x) = (x - 1)^2 - 5$



vertex: _____

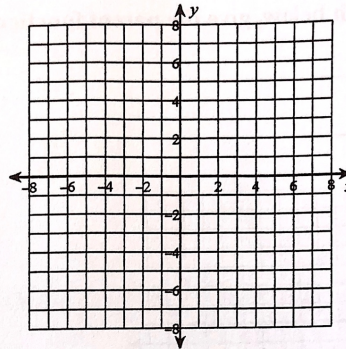
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

6) $f(x) = -(x - 6)^2 + 4$



vertex: _____

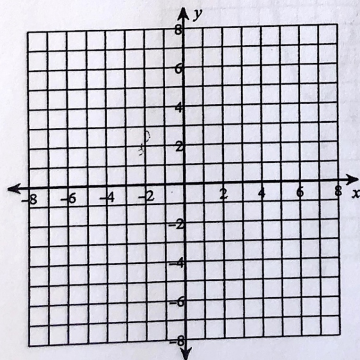
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

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



vertex: _____

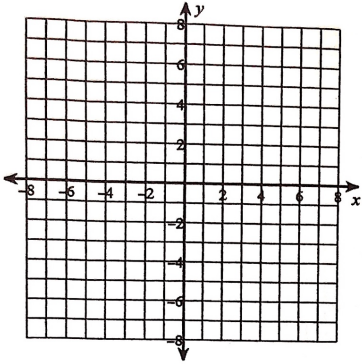
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

8) $f(x) = x^2 + 2x + 2$



vertex: _____

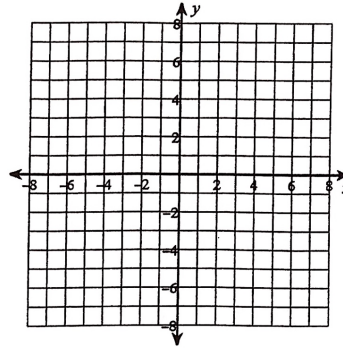
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

9) $f(x) = -x^2 - 4x - 5$



vertex: _____

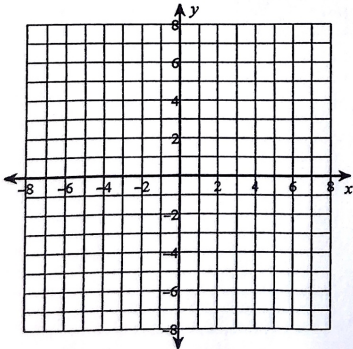
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

10) $f(x) = -2x^2 + 4x - 6$



vertex: _____

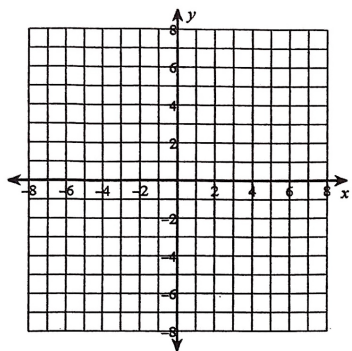
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

11) $f(x) = -(x + 7)(x + 3)$



vertex: _____

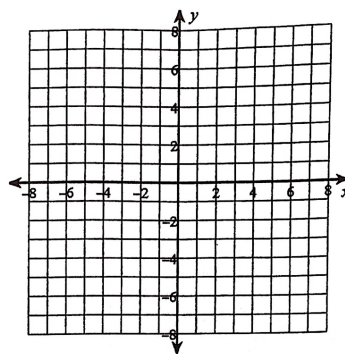
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

12) $f(x) = 2(x + 6)(x + 2)$



vertex: _____

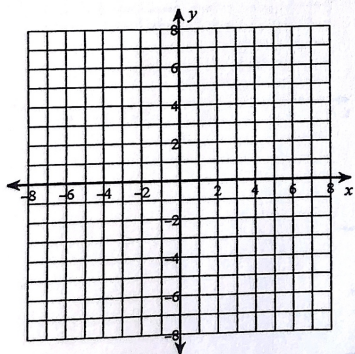
axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____

13) $f(x) = (x - 6)(x - 4)$



vertex: _____

axis of symmetry: _____

max/min: _____ at _____

increasing: _____

decreasing: _____