

Algebra 1
Section 8.2/8.4 Worksheet #2

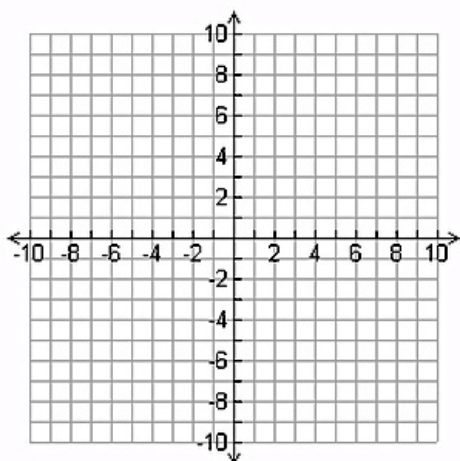
Name _____

Identify the vertex and the axis of symmetry of each quadratic function. Describe the transformation compared to the parent function $f(x) = x^2$.

1. $f(x) = \frac{1}{2}(x+3)^2$ Vertex: AOS: Transformations: Min/Max:	2. $f(x) = (x+11)^2 - 4$ Vertex: AOS: Transformations: Min/Max:
3. $f(x) = -x^2 - 4$ Vertex: AOS: Transformations: Min/Max:	4. $f(x) = 0.56(x+7)^2$ Vertex: AOS: Transformations: Min/Max:
5. $f(x) = \frac{7}{2}x^2 + 15$ Vertex: AOS: Transformations: Min/Max:	6. $f(x) = -(x+8)^2 - 8$ Vertex: AOS: Transformations: Min/Max:
7. $f(x) = 10(x-1)^2 - 2$ Vertex: AOS: Transformations: Min/Max:	8. $f(x) = -\frac{1}{3}x^2$ Vertex: AOS: Transformations: Min/Max:

Graph the function by making a table of values. State the domain and range.

8. $f(x) = (x+4)^2$

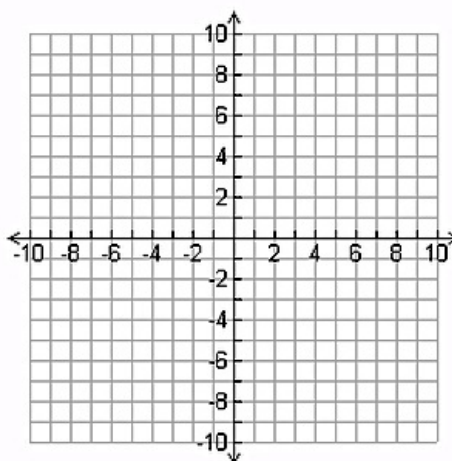


(Set Notation)

Domain:

Range:

9. $f(x) = -x^2 - 6$

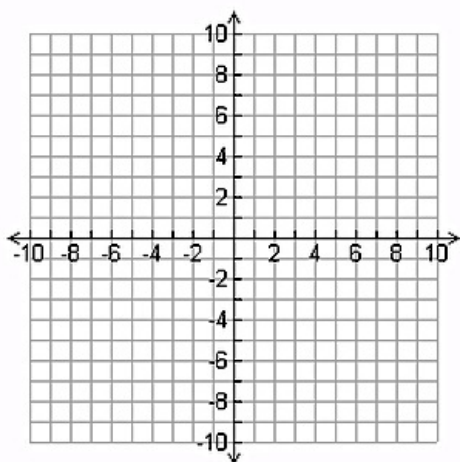


(Set Notation)

Domain:

Range:

10. $f(x) = (x+5)^2 + 4$

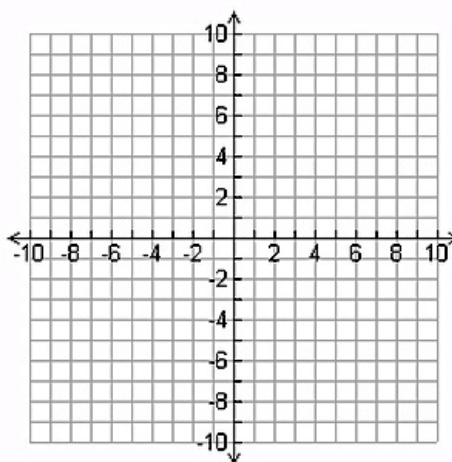


(Interval Notation)

Domain:

Range:

11. $f(x) = -2(x-3)^2 + 3$



(Interval Notation)

Domain:

Range:

