

Find the vertex, AOS, y-int., maximum or minimum value, domain and range.

1) $y = x^2 - 10x + 2$

2) $y = x^2 + 12x - 9$

3) $y = -x^2 + 2x + 1$

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

Domain: _____

Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____

4) $y = 3x^2 + 18x + 9$

5) $y = 3x^2 + 3$

6) $y = \frac{1}{2}x^2 + 4x - 2$

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

Domain: _____

Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____

Graph the following functions. Then state the domain and range.

7) $y = x^2 - 6x + 4$

8) $y = x^2 + 4x - 1$

9) $y = x^2 + 2x + 1$

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

Domain: _____

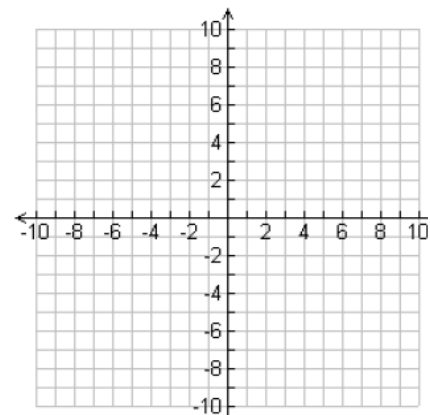
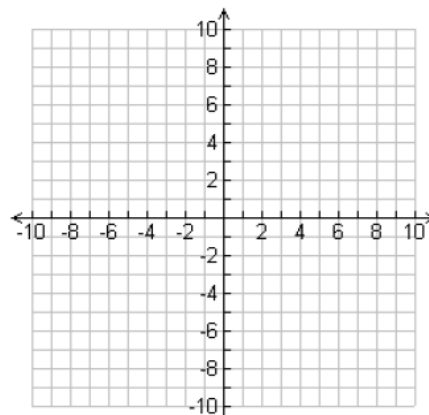
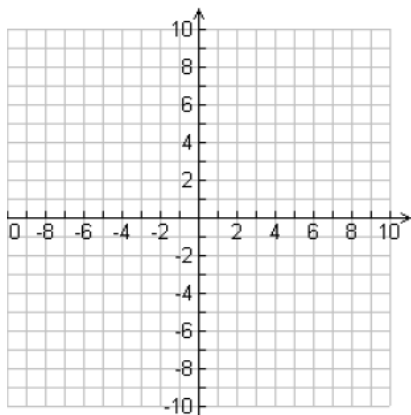
Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____



10) $y = -x^2 - 4x + 4$

11) $y = -2x^2 - 8x + 5$

12) $y = 4x^2 - 16x + 10$

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

Domain: _____

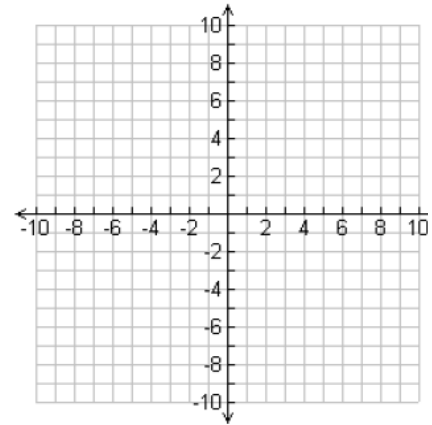
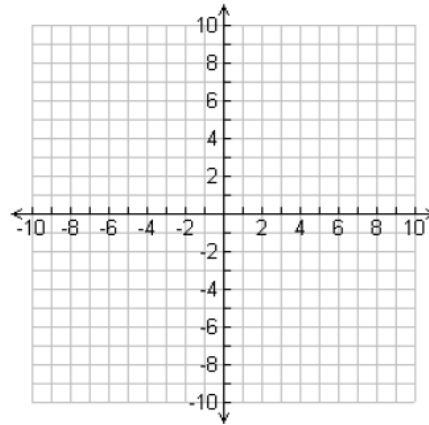
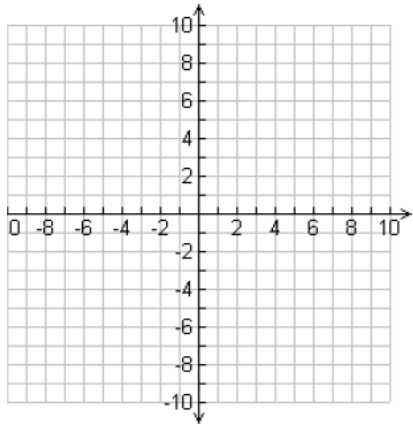
Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____



13) $y = 2x^2 - 2$

14) $y = -\frac{1}{2}x^2 + 6$

15) $y = -3x^2 + 6$

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

Vertex: _____, AOS: _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

y-int: _____ Max/Min _____

Domain: _____

Domain: _____

Domain: _____

Range: _____

Range: _____

Range: _____

