

No calculator Review

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Date _____ Period _____

1) 8.1 I can identify quadratic functions and graphs

1. What does it mean for a function to be a quadratic function?

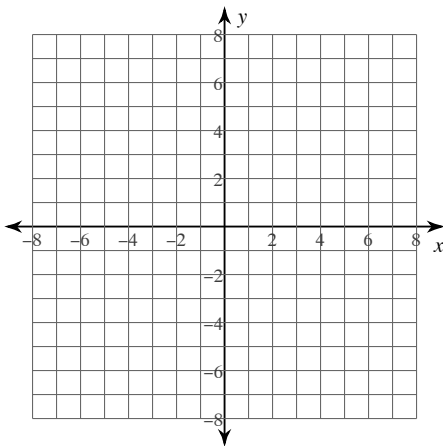
2. List 3 examples of quadratic functions.

3. List 3 examples that are not quadratic functions.

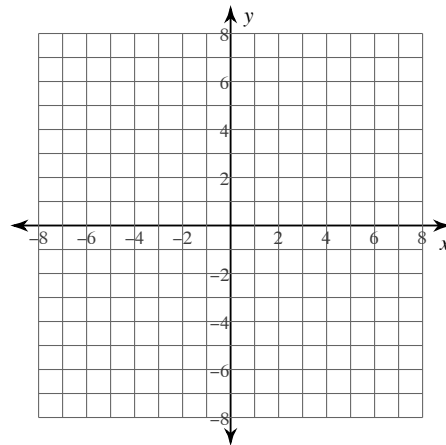
4. What is the graph of a quadratic function called and what does it look like?

8.2 I can graph quadratics in vertex form.

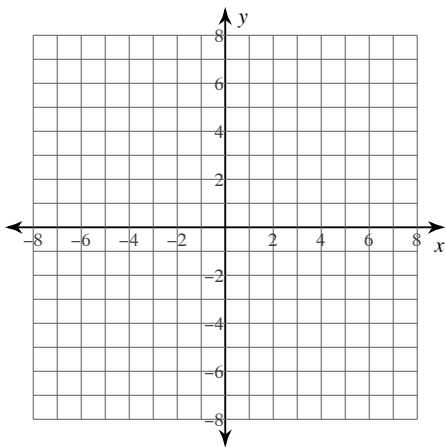
2) $y = -(x - 6)^2 + 3$



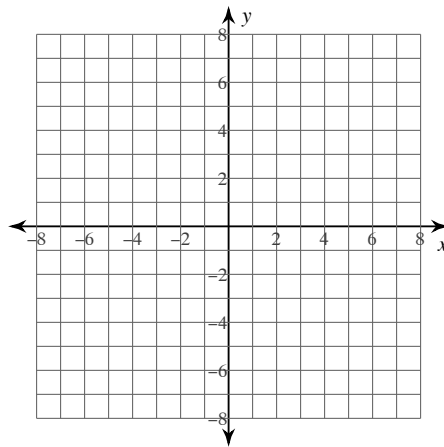
3) $y = -\frac{1}{4}(x + 5)^2 - 6$



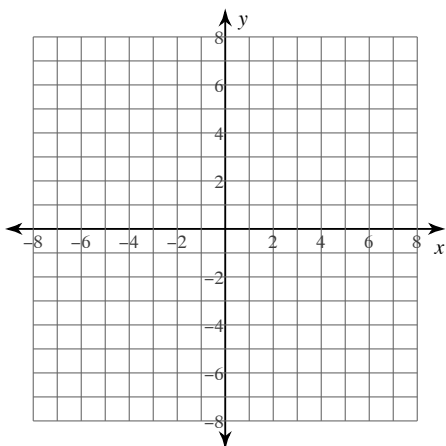
$$4) y = \frac{1}{3}x^2 + 3$$



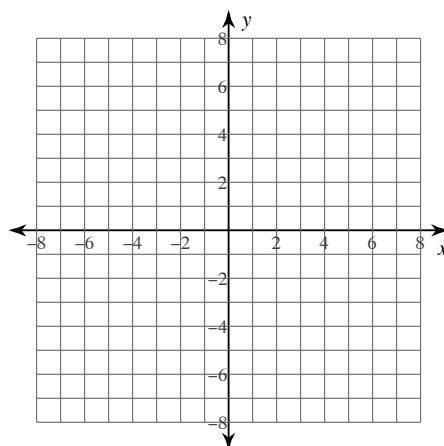
$$5) y = -(x - 4)^2 + 4$$



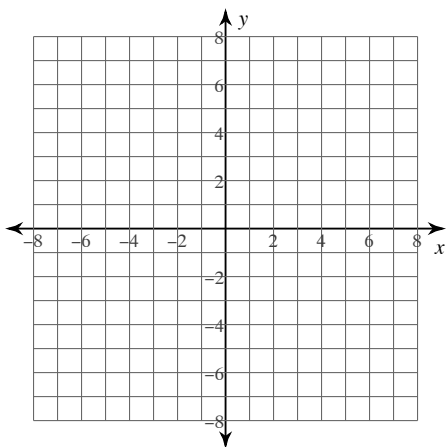
$$6) y = 2x^2 - 2$$



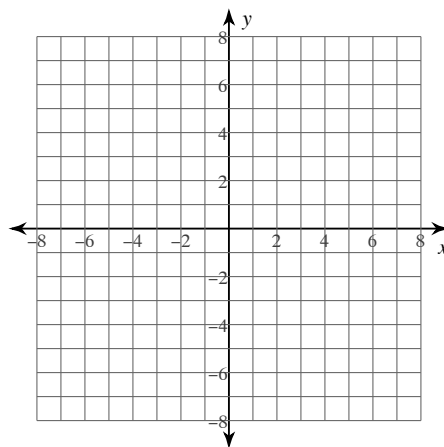
$$7) y = -\frac{1}{4}(x - 2)^2 + 6$$



$$8) y = -(x - 3)^2 - 6$$

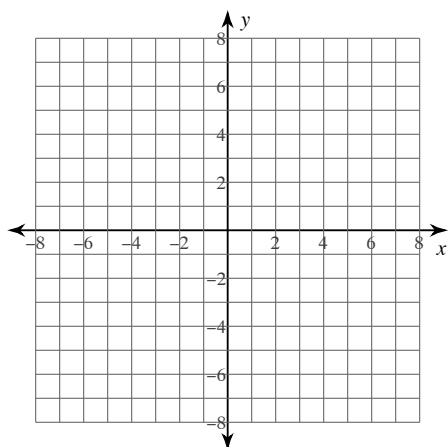


$$9) y = (x - 3)^2 - 1$$

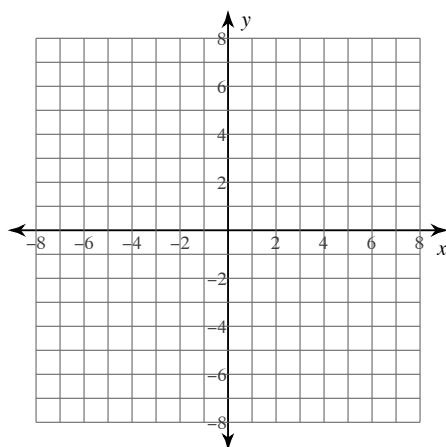


8.3 I can graph quadratics in standard form.

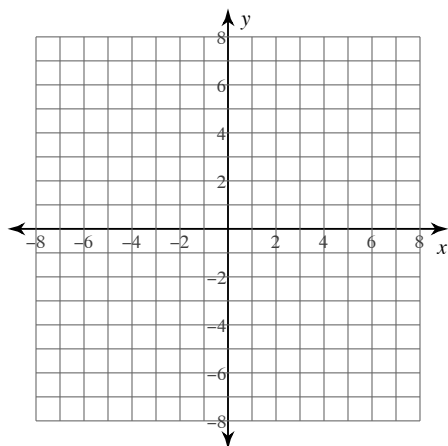
10) $y = -3x^2 + 36x - 113$



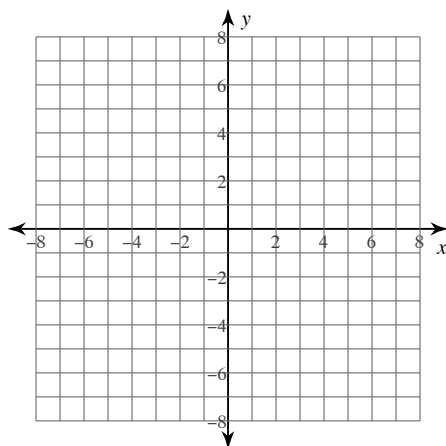
11) $y = 2x^2 + 20x + 47$



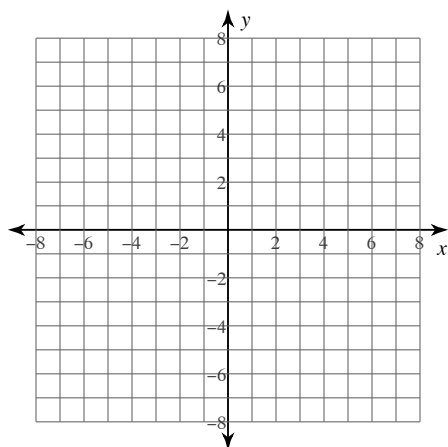
12) $y = x^2 - 8x + 20$



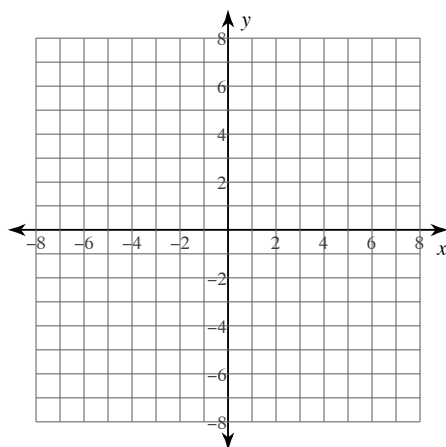
13) $y = x^2 + 2x - 1$



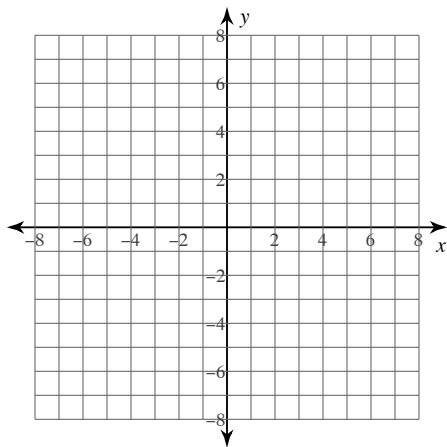
14) $y = \frac{1}{2}x^2 - 3x + \frac{1}{2}$



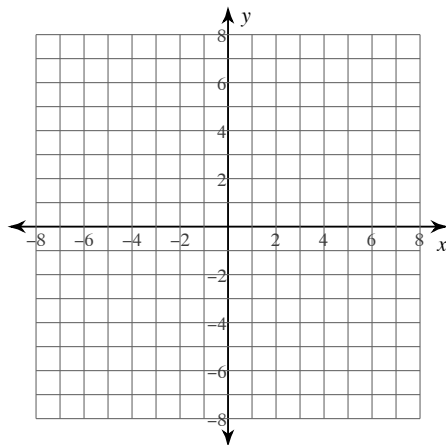
15) $y = \frac{1}{2}x^2 - 2x + 8$



16) $y = \frac{1}{2}x^2 - 6x + 24$

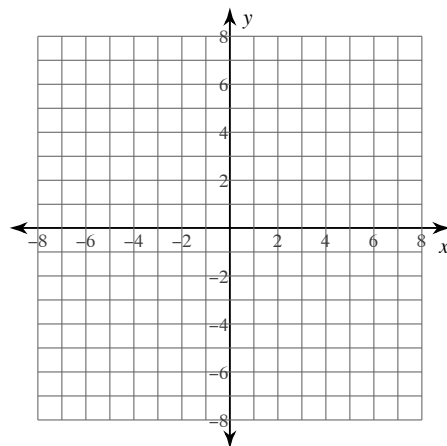


17) $y = x^2 + 8x + 13$

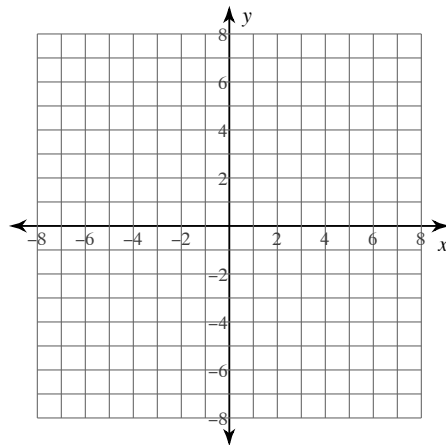


8.3 I can graph a quadratic in intercept form.

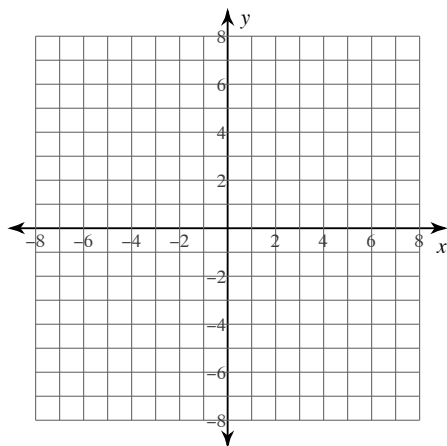
18) $y = -2(x - 5)^2$



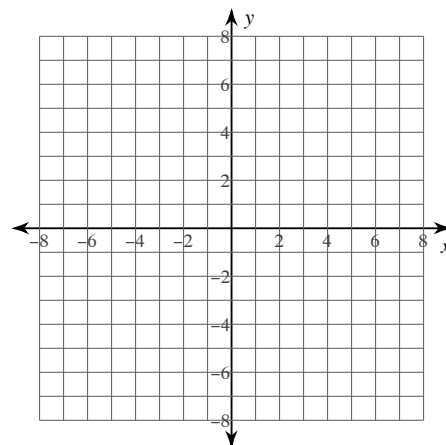
19) $y = \frac{1}{4}(x - 4)(x + 7)$



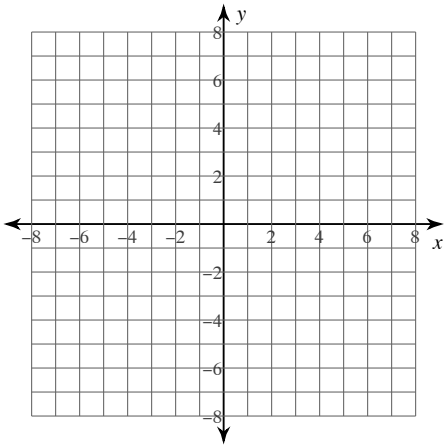
20) $y = -\frac{1}{2}(x - 7)(x - 3)$



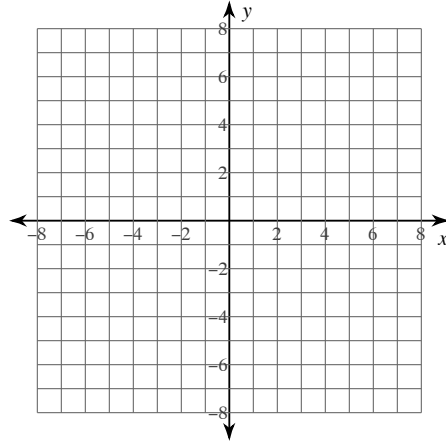
21) $y = 2(x - 5)^2$



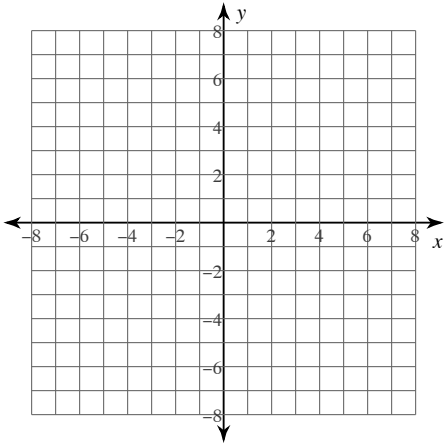
$$22) y = -\frac{1}{4}(x-3)(x+4)$$



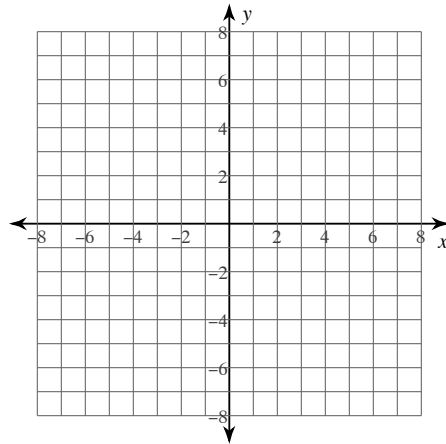
$$23) y = 2(x-2)(x-1)$$



$$24) y = -(x-5)(x-1)$$



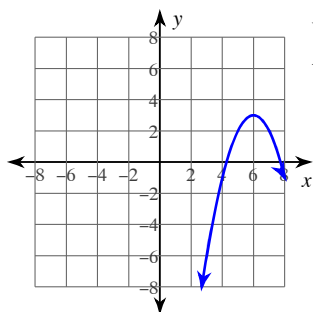
$$25) y = (x+5)(x+2)$$



Answers to No calculator Review (ID: 1)

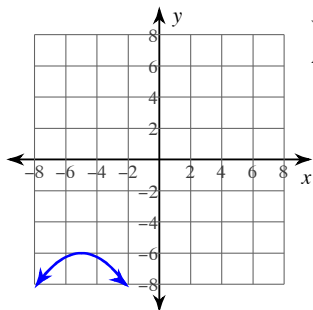
1) 0

2)



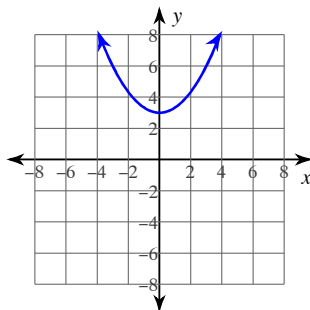
Vertex: $(6, 3)$
Axis of Sym.: $x = 6$

3)



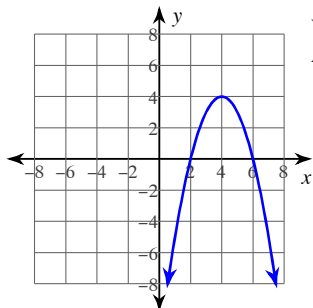
Vertex: $(-5, -6)$
Axis of Sym.: $x = -5$

4)



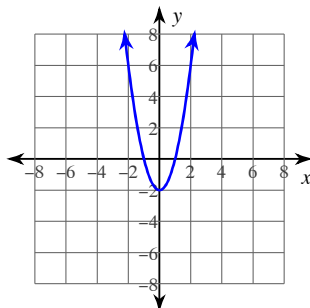
Vertex: $(0, 3)$
Axis of Sym.: $x = 0$

5)



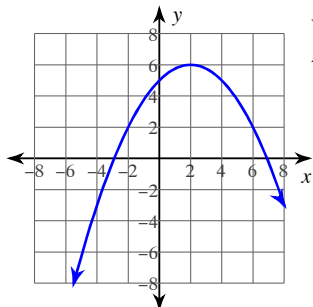
Vertex: $(4, 4)$
Axis of Sym.: $x = 4$

6)



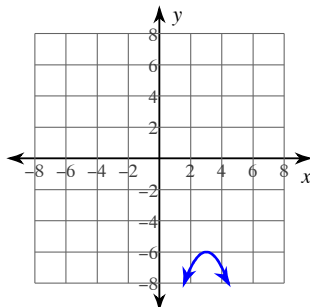
Vertex: $(0, -2)$
Axis of Sym.: $x = 0$

7)



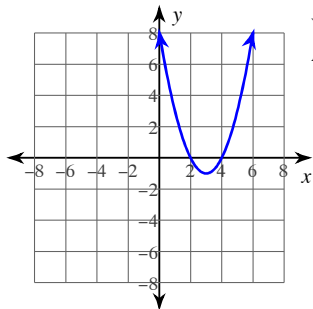
Vertex: $(2, 6)$
Axis of Sym.: $x = 2$

8)



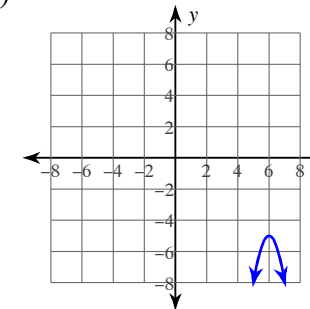
Vertex: $(3, -6)$
Axis of Sym.: $x = 3$

9)



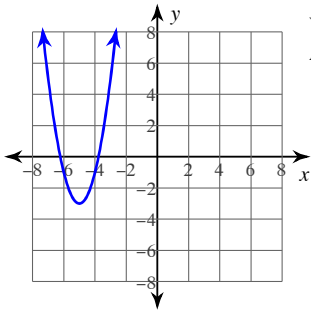
Vertex: $(3, -1)$
Axis of Sym.: $x = 3$

10)



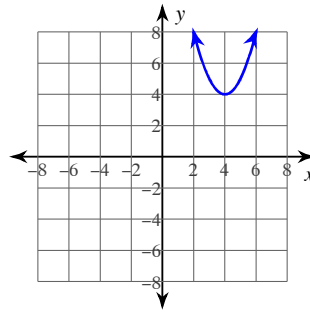
Vertex: $(6, -5)$
Axis of Sym.: $x = 6$

11)



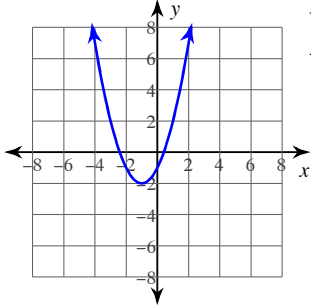
Vertex: $(-5, -3)$
Axis of Sym.: $x = -5$

12)



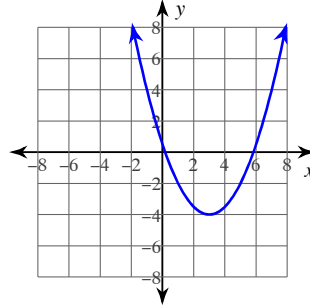
Vertex: $(4, 4)$
Axis of Sym.: $x = 4$

13)



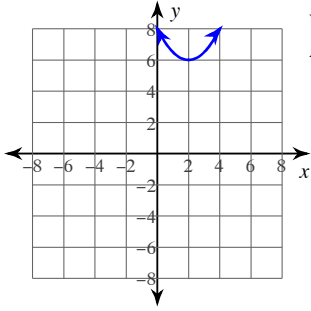
Vertex: $(-1, -2)$
Axis of Sym.: $x = -1$

14)



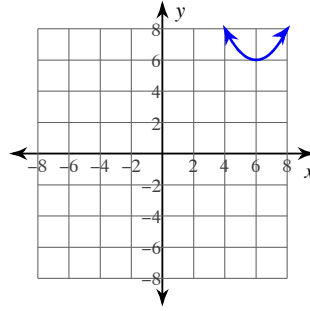
Vertex: $(3, -4)$
Axis of Sym.: $x = 3$

15)



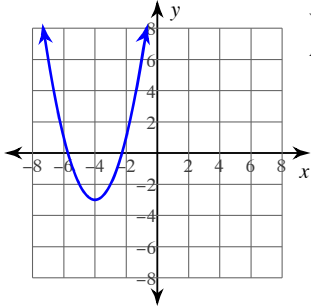
Vertex: $(2, 6)$
Axis of Sym.: $x = 2$

16)



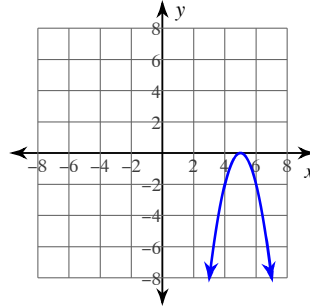
Vertex: $(6, 6)$
Axis of Sym.: $x = 6$

17)



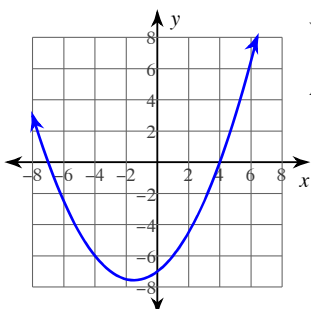
Vertex: $(-4, -3)$
Axis of Sym.: $x = -4$

18)



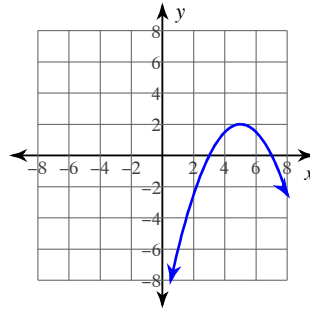
Vertex: $(5, 0)$
Axis of Sym.: $x = 5$

19)



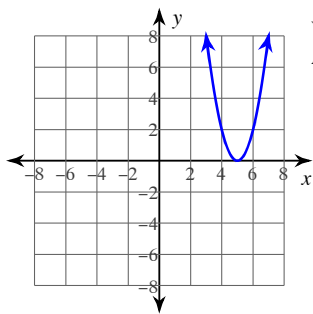
Vertex: $(-\frac{3}{2}, -\frac{121}{16})$
Axis of Sym.: $x = -\frac{3}{2}$

20)



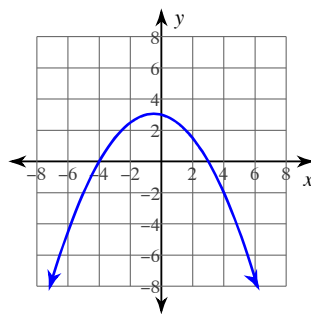
Vertex: $(5, 2)$
Axis of Sym.: $x = 5$

21)



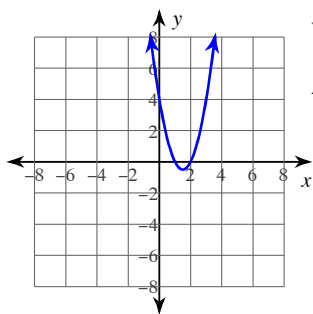
Vertex: $(5, 0)$
 Axis of Sym.: $x = 5$

22)



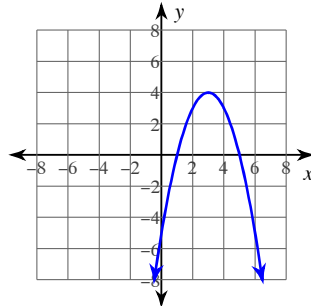
Vertex: $\left(-\frac{1}{2}, \frac{49}{16}\right)$
 Axis of Sym.: $x = -\frac{1}{2}$

23)



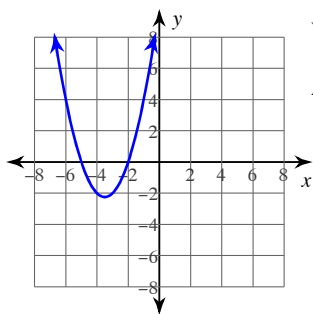
Vertex: $\left(\frac{3}{2}, -\frac{1}{2}\right)$
 Axis of Sym.: $x = \frac{3}{2}$

24)



Vertex: $(3, 4)$
 Axis of Sym.: $x = 3$

25)



Vertex: $\left(-\frac{7}{2}, -\frac{9}{4}\right)$
 Axis of Sym.: $x = -\frac{7}{2}$