

Worksheet 1

Name _____

Graphing and Properties of Parabolas

Date _____ Period _____

Identify the vertex, axis of symmetry, and direction of opening of each.

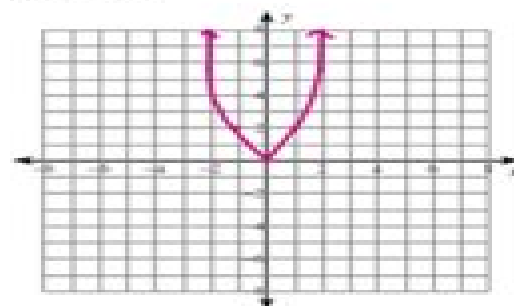
1) $y = 2(x + 10)^2 + 1$
 $a = 2, b = 20, c = 1$
 $h = -10, k = 1$
 $vertex = (-10, 1)$
 $axis of symmetry = x = -10$
 $direction = upward$

3) $y = -\frac{1}{3}x^2 + \frac{16}{3}x - \frac{46}{3}$
 $a = -\frac{1}{3}, b = \frac{16}{3}, c = -\frac{46}{3}$
 $h = -\frac{b}{2a} = -\frac{\frac{16}{3}}{2(-\frac{1}{3})} = -\frac{\frac{16}{3}}{-\frac{2}{3}} = \frac{16}{2} = 8$
 $k = c - \frac{b^2}{4a} = -\frac{46}{3} - \frac{(\frac{16}{3})^2}{4(-\frac{1}{3})} = -\frac{46}{3} - \frac{\frac{256}{9}}{-\frac{4}{3}} = -\frac{46}{3} + \frac{256}{12} = -\frac{46}{3} + \frac{64}{3} = \frac{18}{3} = 6$
 $vertex = (8, 6)$
 $axis of symmetry = x = 8$
 $direction = downward$

5) $y = x^2 + 4x - 5$
 $a = 1, b = 4, c = -5$
 $h = -\frac{b}{2a} = -\frac{4}{2(1)} = -2$
 $k = c - \frac{b^2}{4a} = -5 - \frac{16}{4(1)} = -5 - 4 = -9$
 $vertex = (-2, -9)$
 $axis of symmetry = x = -2$
 $direction = upward$

Graph each equation.

7) $y = 2x^2$



x	y
-2	8
-1	2
0	0
1	2
2	8

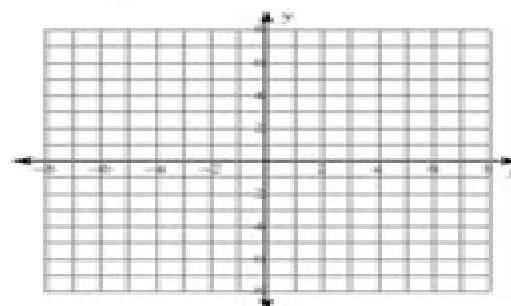
$axis of symmetry = x = 0$

2) $y = -\frac{1}{3}(x - 7)^2 + 1$
 $a = -\frac{1}{3}, b = -\frac{14}{3}, c = 1$
 $h = 7, k = 1$
 $vertex = (7, 1)$
 $axis of symmetry = x = 7$
 $direction = downward$

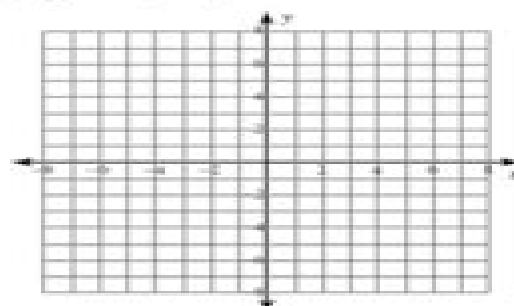
4) $y = 2x^2 + 36x + 166$
 $a = 2, b = 36, c = 166$
 $h = -\frac{b}{2a} = -\frac{36}{2(2)} = -9$
 $k = c - \frac{b^2}{4a} = 166 - \frac{1296}{4(2)} = 166 - \frac{1296}{8} = 166 - 162 = 4$
 $vertex = (-9, 4)$
 $axis of symmetry = x = -9$
 $direction = upward$

6) $y = 2x^2 + 8x + 16$
 $a = 2, b = 8, c = 16$
 $h = -\frac{b}{2a} = -\frac{8}{2(2)} = -2$
 $k = c - \frac{b^2}{4a} = 16 - \frac{64}{4(2)} = 16 - \frac{64}{8} = 16 - 8 = 8$
 $vertex = (-2, 8)$
 $axis of symmetry = x = -2$
 $direction = upward$

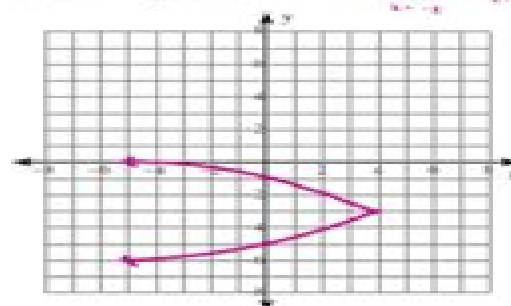
8) $x = \frac{1}{4}y^2$



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



10) $x = -(y + 3)^2 + 4$
 $a = -1, b = -6, c = 4$
 $h = -3, k = 4$
 $vertex = (-3, 4)$
 $axis of symmetry = y = -3$
 $direction = downward$



y	x
0	-3
1	-4
2	-5
3	-6

Graphing And Properties Of Parabolas Answers

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

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