

## ***Holt Algebra 1 Transforming Quadratic Functions Answers***

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4/4/14 8. Holt Algebra 1. 9-4 Transforming Quadratic Functions The quadratic function  $h(t) = -16t^2 + c$  can be used to approximate the height  $h$  in feet above the ground of a falling object  $t$  seconds after it is dropped from a height of  $c$  feet.

Holt Algebra 2 5-1 Using Transformations to Graph Quadratic Functions Horizontal and Vertical Translations: The vertex of a parabola after a translation is located at the point (h, k). If  $f(x) = (x + 7)^2 + 3$  then for  $(x - h)^2 + k$ ,  $(x - (-7))^2 + 3$ ,  $h = -7$   $k = 3$ . The translated vertex is located at the point  $(-7, 3)$ .

Improve your math knowledge with free questions in "Transformations of quadratic functions" and thousands of other math skills.

9-27 Holt McDougal Algebra 1 Practice A Transforming Quadratic Functions Order the functions from narrowest graph to widest. 1.  $f(x) = 5x^2$ ;  $g(x) = 2x^2$  2.  $f(x) = \frac{1}{2}x^2$ ;  $g(x) = -3x^2$ ;  $h(x) = x^2$  Compare the graph of each function with the graph of  $f(x) = x^2$ . 3.

9-4 Practice A. Transforming Quadratic Functions. Order the functions from narrowest graph to widest. 1.  $f(x) = 5x^2$ ;  $g(x) = 2x^2$ ;  $f(x) = \frac{1}{2}x^2$ ;  $g(x) = 3x^2$ ;  $h(x) = x^2$ .  $f(x)$ ,  $g(x)$ ,  $g(x)$ ,  $h(x)$ ,  $f(x)$ . Compare the graph of each function with the graph of  $f(x) = x^2$ . 3.  $g(x) = x^2$  3 4.  $g(x) = \frac{1}{5}x^2$ . width: same width:  $g(x)$  is wider.

Holt McDougal Algebra 1 8-1 Identifying Quadratic Functions The highest or lowest point on a parabola is the vertex. If a parabola opens upward, the vertex is the lowest point. If a parabola opens downward, the vertex is the highest point.

The graph of a quadratic function is a parabola. A parabola is a curve shaped like the letter U. Quadratic function  $f(x) = ax^2 + bx + c$ . You can make a table to graph a quadratic function. Graph  $f(x) = 2x^2 - 4x + 3$ .

x	f(x)
-2	11
-1	5
0	3
1	1
2	3
3	9
4	19

as the quadratic function above; It is not in exactly the same position on the graph. 2. Translation 1 unit left 3. Possible answer: It has the same shape and it also starts at the origin; It is in a different quadrant of the coordinate plane. 4. Reflection across the x-axis

**TRANSFORMING LINEAR FUNCTIONS Practice A**

1. 3 2. 1 4  $f(x)$  | | |  $\cup$  3. 1 4  $f(x)$  4.  $f(x + 5)$  5.

1. Algebra Fundamentals ... 8.1 Properties of Quadratic Functions 8.2 Quadratic Functions 8.3 Solving Quadratic Equations by Graphing 8.4 Solving Quadratic Equations by Factoring 8.5 Solving Quadratic Equations by Completing the Square 8.6 The ... and Quadratic Functions 8.8 Systems of Lineaar and Quadratic Functions 8.9 Transforming Quadratic ...

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Holt McDougal Analytic Geometry Practice B Using Transformations to Graph Quadratic Functions  
Graph the function by using a table. 1.  $f(x) = x^2 - 2x + 1$  2.  $f(x) = (x - 2)^2 + 1$  3.  $f(x) = x^2 + 2x + 1$  4.  $f(x) = x^2 - 4x + 4$  5.  $f(x) = x^2 + 4x + 4$  6.  $f(x) = x^2 - 6x + 9$  7.  $f(x) = x^2 + 6x + 9$  8.  $f(x) = x^2 - 8x + 16$  9.  $f(x) = x^2 + 8x + 16$  10.  $f(x) = x^2 - 10x + 25$  11.  $f(x) = x^2 + 10x + 25$  12.  $f(x) = x^2 - 12x + 36$  13.  $f(x) = x^2 + 12x + 36$  14.  $f(x) = x^2 - 14x + 49$  15.  $f(x) = x^2 + 14x + 49$  16.  $f(x) = x^2 - 16x + 64$  17.  $f(x) = x^2 + 16x + 64$  18.  $f(x) = x^2 - 18x + 81$  19.  $f(x) = x^2 + 18x + 81$  20.  $f(x) = x^2 - 20x + 100$  21.  $f(x) = x^2 + 20x + 100$  22.  $f(x) = x^2 - 22x + 121$  23.  $f(x) = x^2 + 22x + 121$  24.  $f(x) = x^2 - 24x + 144$  25.  $f(x) = x^2 + 24x + 144$  26.  $f(x) = x^2 - 26x + 169$  27.  $f(x) = x^2 + 26x + 169$  28.  $f(x) = x^2 - 28x + 196$  29.  $f(x) = x^2 + 28x + 196$  30.  $f(x) = x^2 - 30x + 225$  31.  $f(x) = x^2 + 30x + 225$  32.  $f(x) = x^2 - 32x + 256$  33.  $f(x) = x^2 + 32x + 256$  34.  $f(x) = x^2 - 34x + 289$  35.  $f(x) = x^2 + 34x + 289$  36.  $f(x) = x^2 - 36x + 324$  37.  $f(x) = x^2 + 36x + 324$  38.  $f(x) = x^2 - 38x + 361$  39.  $f(x) = x^2 + 38x + 361$  40.  $f(x) = x^2 - 40x + 400$  41.  $f(x) = x^2 + 40x + 400$  42.  $f(x) = x^2 - 42x + 441$  43.  $f(x) = x^2 + 42x + 441$  44.  $f(x) = x^2 - 44x + 484$  45.  $f(x) = x^2 + 44x + 484$  46.  $f(x) = x^2 - 46x + 529$  47.  $f(x) = x^2 + 46x + 529$  48.  $f(x) = x^2 - 48x + 576$  49.  $f(x) = x^2 + 48x + 576$  50.  $f(x) = x^2 - 50x + 625$  51.  $f(x) = x^2 + 50x + 625$  52.  $f(x) = x^2 - 52x + 676$  53.  $f(x) = x^2 + 52x + 676$  54.  $f(x) = x^2 - 54x + 729$  55.  $f(x) = x^2 + 54x + 729$  56.  $f(x) = x^2 - 56x + 784$  57.  $f(x) = x^2 + 56x + 784$  58.  $f(x) = x^2 - 58x + 841$  59.  $f(x) = x^2 + 58x + 841$  60.  $f(x) = x^2 - 60x + 900$  61.  $f(x) = x^2 + 60x + 900$  62.  $f(x) = x^2 - 62x + 961$  63.  $f(x) = x^2 + 62x + 961$  64.  $f(x) = x^2 - 64x + 1024$  65.  $f(x) = x^2 + 64x + 1024$  66.  $f(x) = x^2 - 66x + 1089$  67.  $f(x) = x^2 + 66x + 1089$  68.  $f(x) = x^2 - 68x + 1156$  69.  $f(x) = x^2 + 68x + 1156$  70.  $f(x) = x^2 - 70x + 1225$  71.  $f(x) = x^2 + 70x + 1225$  72.  $f(x) = x^2 - 72x + 1296$  73.  $f(x) = x^2 + 72x + 1296$  74.  $f(x) = x^2 - 74x + 1369$  75.  $f(x) = x^2 + 74x + 1369$  76.  $f(x) = x^2 - 76x + 1444$  77.  $f(x) = x^2 + 76x + 1444$  78.  $f(x) = x^2 - 78x + 1521$  79.  $f(x) = x^2 + 78x + 1521$  80.  $f(x) = x^2 - 80x + 1600$  81.  $f(x) = x^2 + 80x + 1600$  82.  $f(x) = x^2 - 82x + 1681$  83.  $f(x) = x^2 + 82x + 1681$  84.  $f(x) = x^2 - 84x + 1764$  85.  $f(x) = x^2 + 84x + 1764$  86.  $f(x) = x^2 - 86x + 1849$  87.  $f(x) = x^2 + 86x + 1849$  88.  $f(x) = x^2 - 88x + 1936$  89.  $f(x) = x^2 + 88x + 1936$  90.  $f(x) = x^2 - 90x + 2025$  91.  $f(x) = x^2 + 90x + 2025$  92.  $f(x) = x^2 - 92x + 2116$  93.  $f(x) = x^2 + 92x + 2116$  94.  $f(x) = x^2 - 94x + 2209$  95.  $f(x) = x^2 + 94x + 2209$  96.  $f(x) = x^2 - 96x + 2304$  97.  $f(x) = x^2 + 96x + 2304$  98.  $f(x) = x^2 - 98x + 2401$  99.  $f(x) = x^2 + 98x + 2401$  100.  $f(x) = x^2 - 100x + 2500$

**Practice B 15-1 Using Transformations to Graph Quadratic ...**

1.  $y = x^2 + 1$  2.  $y = x^2 - 1$  3.  $y = x^2 + 2$  4.  $y = x^2 - 2$  5.  $y = x^2 + 3$  6.  $y = x^2 - 3$  7.  $y = x^2 + 4$  8.  $y = x^2 - 4$  9.  $y = x^2 + 5$  10.  $y = x^2 - 5$  11.  $y = x^2 + 6$  12.  $y = x^2 - 6$  13.  $y = x^2 + 7$  14.  $y = x^2 - 7$  15.  $y = x^2 + 8$  16.  $y = x^2 - 8$  17.  $y = x^2 + 9$  18.  $y = x^2 - 9$  19.  $y = x^2 + 10$  20.  $y = x^2 - 10$  21.  $y = x^2 + 11$  22.  $y = x^2 - 11$  23.  $y = x^2 + 12$  24.  $y = x^2 - 12$  25.  $y = x^2 + 13$  26.  $y = x^2 - 13$  27.  $y = x^2 + 14$  28.  $y = x^2 - 14$  29.  $y = x^2 + 15$  30.  $y = x^2 - 15$  31.  $y = x^2 + 16$  32.  $y = x^2 - 16$  33.  $y = x^2 + 17$  34.  $y = x^2 - 17$  35.  $y = x^2 + 18$  36.  $y = x^2 - 18$  37.  $y = x^2 + 19$  38.  $y = x^2 - 19$  39.  $y = x^2 + 20$  40.  $y = x^2 - 20$  41.  $y = x^2 + 21$  42.  $y = x^2 - 21$  43.  $y = x^2 + 22$  44.  $y = x^2 - 22$  45.  $y = x^2 + 23$  46.  $y = x^2 - 23$  47.  $y = x^2 + 24$  48.  $y = x^2 - 24$  49.  $y = x^2 + 25$  50.  $y = x^2 - 25$  51.  $y = x^2 + 26$  52.  $y = x^2 - 26$  53.  $y = x^2 + 27$  54.  $y = x^2 - 27$  55.  $y = x^2 + 28$  56.  $y = x^2 - 28$  57.  $y = x^2 + 29$  58.  $y = x^2 - 29$  59.  $y = x^2 + 30$  60.  $y = x^2 - 30$  61.  $y = x^2 + 31$  62.  $y = x^2 - 31$  63.  $y = x^2 + 32$  64.  $y = x^2 - 32$  65.  $y = x^2 + 33$  66.  $y = x^2 - 33$  67.  $y = x^2 + 34$  68.  $y = x^2 - 34$  69.  $y = x^2 + 35$  70.  $y = x^2 - 35$  71.  $y = x^2 + 36$  72.  $y = x^2 - 36$  73.  $y = x^2 + 37$  74.  $y = x^2 - 37$  75.  $y = x^2 + 38$  76.  $y = x^2 - 38$  77.  $y = x^2 + 39$  78.  $y = x^2 - 39$  79.  $y = x^2 + 40$  80.  $y = x^2 - 40$  81.  $y = x^2 + 41$  82.  $y = x^2 - 41$  83.  $y = x^2 + 42$  84.  $y = x^2 - 42$  85.  $y = x^2 + 43$  86.  $y = x^2 - 43$  87.  $y = x^2 + 44$  88.  $y = x^2 - 44$  89.  $y = x^2 + 45$  90.  $y = x^2 - 45$  91.  $y = x^2 + 46$  92.  $y = x^2 - 46$  93.  $y = x^2 + 47$  94.  $y = x^2 - 47$  95.  $y = x^2 + 48$  96.  $y = x^2 - 48$  97.  $y = x^2 + 49$  98.  $y = x^2 - 49$  99.  $y = x^2 + 50$  100.  $y = x^2 - 50$

**LESSON Practice A Identifying Quadratic Functions**

Holt McDougal Algebra 2 2-1 Using Transformations to Graph Quadratic Functions Warm Up For each translation of the point  $(-2, 5)$ , give the coordinates of the translated point.

**2-1 Using Transformations to Graph Quadratic Functions**

The basic form of a quadratic function is  $f(x) = x^2$ . The graph is a parabola with a vertex at  $(0, 0)$  opening up. All other quadratic functions are transformations of this parent function.

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Holt McDougal Algebra 2 2-1 Using Transformations to Graph Quadratic Functions Notice that the graph of the parent function  $f(x) = x^2$  is a U-shaped curve called a parabola. As with other functions, you can graph a quadratic function by plotting points with coordinates that make the equation true.

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