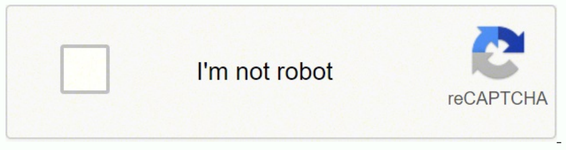

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Graphing quadratic functions in vertex form ppt

3.2 Graphing Quadratic Functions in Vertex FormQuadratic Function • A function of the form y=ax2+bx+c where a≠0 making a u-shaped graph called a parabola. Example quadratic equation:Vertex- • The lowest or highest point of a parabola. Vertex Axis of symmetry- • The vertical line through the vertex of the parabola. Axis of SymmetryVertex Form Equation y=a(x-h)2+k • If a is positive, parabola opens up If a is negative, parabola opens down. • The vertex is the point (h,k). • The axis of symmetry is the vertical line x=h. • Don't forget about 2 points on either side of the vertex! (5 points total!)Vertex Form • Each function we just looked at can be written in the form (x – h)2 + k, where (h , k) is the vertex of the parabola, and x = h is its axis of symmetry. • (x – h)2 + k – vertex formExample 1: Graph • Analyze y = (x + 2)2 + 1. • Step 1 Plot the vertex (-2 , 1) • Step 2 Draw the axis of symmetry, x = -2. • Step 3 Find and plot two points on one side , such as (-1, 2) and (0 , 5). • Step 4 Use symmetry to complete the graph, or find two points on the left side of the vertex. Your Turn! • Analyze and Graph: y = (x + 4)2 - 3. (-4,-3)Example 2: Graphy=-.5(x+3)2+4 • a is negative (a = -.5), so parabola opens down. • Vertex is (h,k) or (-3,4) • Axis of symmetry is the vertical line x = -3 • Table of values x y -1 2 -2 3.5 -3 4 -4 3.5 -5 2 Vertex (-3,4) (-4,3.5) (-2,3.5) (-5,2) (-1,2) x=-3Now you try one! y=2(x-1)2+3 • Open up or down? • Vertex? • Axis of symmetry? • Table of values with 5 points?(-1, 11) (3,11) X = 1 (0,5) (2,5) (1,3)x=1 (-1,0) (3,0) (1,-8)Challenge Problem #1 • Write the equation of the graph in vertex form.Challenge Problem #2 • A bridge is designed with cables that connect two towers that rise above a roadway. The end of the cable are the same height above the roadway. Each cable is modeled by: where x is the horizontal distance (in feet) from the left tower and y is the corresponding height (in feet of the cable). Find the distance between the towers. 1 Quadratic Functions in Vertex Form 2 f(x) = x2 Parent functionThis is the simplest quadratic function. We will use this one as a model by which to compare all other quadratic functions we will examine. 3 Vertex Form f(x) = a(x - h)2 + k y = a(x - h)2 + kExample: f(x) = 4(x - 3)2+5 4 y = a(x - h)2 + k Vertex Form if a>0, the graph opens upif a1, the graph is narrower than the parent function if |a| 1 the graph opens up, if a < 1 the graph opens down The larger the magnitude of a the narrower the graph 3 Practice Graph y = (x – 1)2 + 3Does this graph have a minimum or a maximum value? What is it? 4 Graph y = (x + 2)2 – 1 Does this graph have a minimum or a maximum value? What is it? 5 Graph y = 2(x – 3)2 – 8 Does this graph have a minimum or a maximum value? What is it? 6 Graph y = -3(x - 2)2 + 7 Does this graph have a minimum or a maximum value? What is it? 7 Graph y = ½(x + 4)2 – 9 Does this graph have a minimum or a maximum value? What is it? 8 Change to standard formy = (x – 3)2 + 1 y = -2(x+4)2 - 2 SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. If you continue browsing the site, you agree to the use of cookies on this website. See our User Agreement and Privacy Policy. SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. If you continue browsing the site, you agree to the use of cookies on this website. See our Privacy Policy and User Agreement for details.

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