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8 Graphing Quadratic Functions. Mathematical Thinking:Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. 8.1 Graphing f(x) =ax2. 8.2 Graphing f(x) =ax2+c. 8.3 Graphing f(x) =ax2+bx+c. 8.4 Graphing f(x) =a(x−h)2+k.

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The U-shaped graph of a quadratic function is called a 2. The graph of a quadratic function opens up when a > 0 and opens down when a < 0. Monitoring Progress and Modeling with Mathematics 3. The vertex is (1, − x = 1. The domain is all real numbers. The range is y ≤ 8−1. When < 1, y increases as x increases. When > 1, increases as x ...

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422 Chapter 8 Graphing Quadratic Functions Graphing y = ax2 When a < 0 Graph h(x) = − 1— 3 x2. Compare the graph to the graph of f (x) = x2. SOLUTION Step 1 Make a table of values. x −6 −30 3 6 h(x) −12 −30−3 −12 Step 2 Plot the ordered pairs. Step 3 Draw a smooth curve through the points. The graphs have the same vertex, (0, 0),

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The graph of a quadratic function is a U-shaped curve called a parabola. The sign on the coefficient [latex]a[/latex] of the quadratic function affects whether the graph opens up or down. If [latex]a<0[/latex], the graph makes a frown (opens down) and if [latex]a>0[/latex] then the graph makes a smile (opens up).

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If graphing a quadratic function when it is in standard form, it is helpful to first find the _____. find the coordinate that represents the max or min of the parabola. This is always the point that lies on the axis of symmetry, thus has the coordinate (-b/2a, f(-b/2a))

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Algebra - Big Ideas - Ms. Gross - Mathematics
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Interpret a quadratic graph (video) | Khan Academy
Lesson 8.2: Graphing f(x) = ax2 + c 1.Complete a function table: quadratic functions LFV Lesson 8.3: Graphing f(x) = ax2 + bx + c Lesson 8.4: Graphing f(x) = a(x-h)2 + k 1.Match quadratic functions and graphs AU8 2.Write a quadratic function from its vertex and another point YGV 3.Graph quadratic functions in vertex form C7T

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