Summarizing the Roles of 2, h&k



MPM2D1 Day 6: Summarizing the Roles of a, h and k

Quadratic Function	Transformation(s)	Vertex	Step Pattern	Graph
$y = x^2 - 5$	shift 5 units down	(0, -5)	1, 3, 5, 7,	
$y = 2(x-3)^2$	Stretched verticaly bafo 2 Shift 3 units RIGHT	(3,0)	2.(1,3,5,7) 2,6,10,14	
$y = \frac{1}{2}(x+6)^2 - 3$	Compressed vertically bate 0.5 Shifted 6 units left 3 units down	(-6 ₁ -3)	0.5, 1.5, 2.5, 3.5	
$y = -3(x+3)^2 + 4$	Reflected about the "x" axis Stretched vertically 6.q.f.o.3 Shifted 3 units LEFT, 4 units UP	(-3,4)	-3·(1,3,5,7) -3 <i>,</i> -9,-15,-21	

MPM2D1 Day 6: Summarizing the Roles of a, h and k

Quadratic Function	Transformation(s)	Vertex	Step Pattern	Graph
y = 4x - 5	Stretched vertically bafo 4. Shifted 5 units Down	(0 ₁ -5)	4·(1,3,5) 4,12,20	
$y = -(x-3)^2 + 6$	Reflected about the "x" axis Shifted 3 units RIGHT and 6 units UP	(3,†6)	-1,-3,-5,-7	
$y = -\frac{1}{2}(x+5)^2 + 2$	Reflected about the x axis Compressed vertically bate 0.5 Shifted Sunits Left Zunits up	(-5,2)	-0.5,-1.5,-2.5,-35	x x x -6 x -7 x -6 x -7 x -6 x -7 x -7 x -6 x -7 x -7 x -7 x -7 x -7 <tr td=""></tr>
$y = -3(x-1)^2 + 2$	Reflected about the "x" axis Stretched vertically bates Shifted Lunit Right , Lunits UP	(1,2)	-3,-9,-15	

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