

Quadratics Review Part 2.docx - Word

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axis of symmetry is for the x value and finding y. Use the step pattern to graph the rest of the parabola.

(I)

a) $y = (x + 3)(x - 1)$
 $x + 3 = 0 \rightarrow x = -3$
 $x - 1 = 0 \rightarrow x = 1$

b) $y = 2(x - 3)(x + 2)$
 $x - 3 = 0 \rightarrow x = 3$
 $x + 2 = 0 \rightarrow x = -2$
zeroes $\{-3, -2, 3\}$

c) $y = 1/2(x - 4)(x - 8)$
 $x - 4 = 0 \rightarrow x = 4$
 $x - 8 = 0 \rightarrow x = 8$

(II)

over 1, up 2
over 1, up 3 $\times 2 = 6$

$y = 1$

Factor each expression and find the solution set (aka "zeroes") so that you are in factored form. Next, find the

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~~x = (x-3)(x-5)~~

~~x-3=0~~
~~x=3~~

~~x-5=0~~
~~x=5~~

~~zeroes at 3, 5~~

~~a. 0.5 -> x = 4~~

~~y = x² - 8x + 15~~

~~y = 4² - 8(4) + 15~~

~~y = 16 - 32 + 15~~

~~y = -1~~

~~vertex (4, -1)~~

~~Quadratics Test Review Continued~~

~~Factor each expression and find the solution set (aka "zeroes") so that you are in factored form. Next, find the vertex by substituting the axis of symmetry in for the x value and finding y. Finally, state the y intercept (hint- make x=0 and solve for y).~~

$y = x^2 - 8x + 15$

a) $y = x^2 - 8x + 15$ b) $y = x^2 + x - 6$

c) $y = 2x^2 + 12x + 10$

c) $y = 3x^2 - 6x + 4$

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