

Home: 21

Date: 4/14

Population Project Part One - Due Thursday
Back side of handwritten Logs Sheet

<http://www.mathvizza.com>

Bell Work

Directions: Please find the axis of symmetry and the vertex of the following function.



$$y = 2x^2 + 4x - 1$$

$x = \frac{-b}{2a}$	$\left(\frac{-b}{2a}, f\left(\frac{-b}{2a}\right) \right)$	$x = \frac{-4}{2(2)} = \frac{-4}{4} = -1$ <p>axis of sym. $x = -1$</p> <hr style="border: 1px solid red;"/> $-1, f(-1)$ <p>$f(-1) = 2(-1)^2 + 4(-1) - 1$ $= 2 - 4 - 1$ $= -2 - 1 = -3$</p>
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Objectives

1. review quadratics
2. hand back quiz
3. go over old homework solving equations
4. go over hw due today
5. model new homework
6. wiki assignment

$$\textcircled{L} \quad \log x + \log(x+2) = \log 3$$

$$10^0 = -3$$

$$\log [x(x+2)] = \log 3$$

$$x(x+2) = 3$$

$$x^2 + 2x = 3$$

$$x^2 + 2x - 3 = 0$$

$$(x+3)(x-1) = 0$$

$$\cdot \quad x+3=0 \quad x-1=0$$

$$\cdot \quad x = -3 \quad x = 1$$

$$\log -3 + \log(-3+1) = \log 3$$

$$\log 1 + \log(1+2) = \log 3$$

$$\log 1 + \log 3 = \log 3$$

$$\log 3 = \log 3$$