

The Quadratic Formula Dissection

Three specimens of the quadratic formula are provided below.

Please dissect these specimens in order to identify:

1. The axis of symmetry of the quadratic relation $y = ax^2 + bx + c$
2. The first x-intercept of the quadratic relation $y = ax^2 + bx + c$
3. The second x-intercept of the quadratic relation $y = ax^2 + bx + c$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

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Axis of Symmetry

x-intercept #1

x-intercept #2