

Extension Lesson 2 Test: Quadratic Formula

Show your work.

Use the discriminant to determine the number of real solutions for the quadratic equations.

Discriminant: $b^2 - 4ac$

1) $y = -x^2 - 4x - 8$

2) $y = 5x^2 - 10$

Identify a , b , and c .

Solve the given equations using the quadratic formula. Leave your answers in radical form when solutions are not rational values.

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

3) $0 = 3x^2 - 3x - 1$

CONTINUE 

Identify a , b , and c .

Solve the given equations using the quadratic formula. Leave your answers in radical form when solutions are not rational values.

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

4) $x^2 + 5x = -6$

5) $x^2 - 2 = 0$

