

The Quadratic Formula and the Discriminant Exit Quiz

Part A Instructions: Choose the option that completes the sentence or answers the question.

1. The quadratic formula can be used to find:

- a. Real solutions
- b. Complex solutions
- c. Both a and b
- d. None of these

2. The discriminant of the quadratic equation $y = x^2 + 7x - 3$ is:

- a. 60
- b. 21
- c. 10
- d. 61

3. The quadratic equation has real solutions if:

- a. $b^2 - 4ac < 0$
- b. $b^2 - 4ac = 0$
- c. $b^2 - 4ac > 0$
- d. None of these

4. The equation $y = 4x^2 - 4x + 1$ has:

- a. Two solutions
- b. One solution
- c. No solution
- d. Infinite solutions

Part B Instructions: Answer the question below.

5. Find the solutions of $x^2 + 9x - 13 = 0$.

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Part B Instructions: Answer the question below.

5. Find the solutions of $x^2 + 9x - 13 = 0$.

Here $a = 1, b = 9, c = -13$

$$x = \frac{-(9) \pm \sqrt{(9)^2 - 4(1)(-13)}}{2(1)}$$

$$x = \frac{-9 \pm \sqrt{81+52}}{2(1)}$$

$$x = \frac{-9 \pm \sqrt{133}}{2}$$

$$x = \frac{-9 + \sqrt{133}}{2} ; x = \frac{-9 - \sqrt{133}}{2}$$