

Quadratic Equations Challenge

Mathematics · Practice Test · 5 Questions

1. If one root of the quadratic equation $2px^2 - 10px - 3 = 0$ is alpha, and the other root is one more than alpha, what is the other root?

- A) $\alpha - 1$
- B) $\alpha + 1$
- C) α^2
- D) $1/\alpha$

2. For the quadratic equation $ax^2 + bx + c = 0$, what is the sum of the roots?

- A) $-b/a$
- B) b/a
- C) c/a
- D) $-c/a$

3. For the quadratic equation $ax^2 + bx + c = 0$, what is the product of the roots?

- A) $-b/a$
- B) b/a
- C) c/a
- D) $-c/a$

4. In the equation $2px^2 - 10px - 3 = 0$, what is the sum of the roots in terms of p?

- A) 5
- B) $10p$
- C) $5/p$
- D) -5

5. In the equation $2px^2 - 10px - 3 = 0$, what is the product of the roots in terms of p?

- A) $3/2p$
- B) $-3/2p$
- C) $-3/p$
- D) $3/p$