

Quadratic Equations Challenge

Mathematics · Answer Key · 5 Questions

1. If one root of the quadratic equation $2px^2 - 10px - 3 = 0$ is α , and the other root is one more than α , 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) $3/p$