

1. What are the solutions of

$$(2x + 3)(x - 5) = 0$$

A $-\frac{3}{2}$ and 5

B -5 and $\frac{3}{2}$

C $\frac{3}{2}$ and 5

2. What is the correct factorization of $x^2 + 6x + 8$?

A $(x + 8)(x + 1)$

B $(x + 4)(x + 4)$

C $(x + 4)(x + 2)$

3. Factor and solve $x^2 - 7x - 30 = 0$.
What are the solutions?

A -10 and 3

B 10 and -3

C 10 and 3

4. What are the solutions of $x^2 - x - 6 = 0$?

A -2 and -3

B -2 and 3

C 2 and -3

5. What is the correct factorization of $3x^2 + 14x + 8$?

A $(3x + 4)(x + 2)$

B $(3x + 2)(x + 4)$

C $(3x + 8)(x + 1)$

6. What are the solutions of

$$2x^2 + 4x - 6 = 0?$$

A -3 and 1

B $-\frac{1}{2}$ and 6

C 3 and 6

7. What is the complete factorization of $25x^2 - 36$?

A $(5x + 6)(5x + 6)$

B $(5x - 6)(5x - 6)$

C $(5x + 6)(5x - 6)$

8. Solve $2x^2 - 17x = 9$.

9. Solve $4x^2 - 16 = 0$.

10. Solve $x^2 - 20x + 100 = 0$.
