

Grade 10 Practice Factoring and Quadratic Equations

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 1. Expand and simplify: $(2x - 1)(x + 3)$
a. $2x^2 + x - 3$ b. $2x^2 + 5x - 3$ c. $2x^2 - 7x + 3$ d. $2x^2 - 5x - 3$
- ____ 2. Factor completely: $4x^2 - 9$
a. $(4x - 9)(x + 1)$ b. $(4x + 9)(x - 1)$ c. $(2x - 3)(2x + 3)$ d. $(2x - 3)^2$
- ____ 3. Factor completely: $9x^2 - 24x + 16$
a. $(9x + 4)(x - 4)$ b. $(9x - 16)(x + 1)$ c. $(3x - 4)^2$ d. $(3x + 4)(3x - 4)$
- ____ 4. Factor completely: $9x^2 - 16$
a. $(3x - 4)(3x + 4)$ b. $(3x - 4)^2$ c. $(9x - 16)(x + 1)$ d. $(9x - 1)(x + 16)$
- ____ 5. Factor completely: $2x^2 + 7x + 6$
a. $x(2x + 7) + 6$ b. $(2x + 2)(x + 3)$ c. $(2x + 1)(x + 6)$ d. $(2x + 3)(x + 2)$
- ____ 6. Expand and simplify: $-3x(2x - 1)$
a. $-6x^2 + 3x$ b. $6x^2 - 2x$ c. $-2x^2 + 6x$ d. $3x^2 - 6x$
- ____ 7. Expand and simplify: $(2x - 1)(x - 3)$
a. $2x^2 + x - 3$ b. $2x^2 - 7x + 3$ c. $2x^2 - 5x - 3$ d. $2x^2 + 5x - 3$
- ____ 8. Factor completely: $3x^2 - 7x + 2$
a. $(x - 1)(3x + 2)$ b. $(x - 2)(3x - 1)$ c. $(x - 1)(3x - 2)$ d. $(x + 2)(3x + 1)$
- ____ 9. Factor completely: $2x^2 + 5x + 3$
a. $x(2x + 5) + 3$ b. $(2x + 3)(x + 1)$ c. $(x + 3)(2x - 1)$ d. $(2x + 1)(x + 3)$
- ____ 10. Expand and simplify: $-2x(x - 3)$
a. $-6x^2 + 3x$ b. $3x^2 - 6x$ c. $6x^2 - 2x$ d. $-2x^2 + 6x$
- ____ 11. Factor completely: $4x^2 - 25$
a. $(2x - 5)(2x + 5)$ b. $(2x - 5)^2$ c. $(4x - 5)(x + 5)$ d. $(4x + 5)(x - 5)$
- ____ 12. Factor completely: $3x^2 + 2x - 1$
a. $(3x + 1)(x + 1)$ b. $(3x - 1)(x + 1)$ c. $(3x + 1)(x - 1)$ d. $(3x - 1)(x - 1)$
- ____ 13. Expand and simplify: $(2x + 3)(x - 1)$
a. $2x^2 + 5x - 3$ b. $2x^2 - 5x - 3$ c. $2x^2 + x - 3$ d. $2x^2 - 7x + 3$
- ____ 14. Factor completely: $3x^2 - 3x$
a. $6x(3x - 1)$ b. $3(x - 1)^2$ c. $3x(x - 1)$ d. $(3x - 1)(3x - 2)$
- ____ 15. Expand and simplify: $3x(x - 2)$
a. $6x^2 - 2x$ b. $-2x^2 + 6x$ c. $3x^2 - 6x$ d. $-6x^2 + 3x$
- ____ 16. Factor completely: $9x^2 - 1$
a. $(9x - 1)(x + 1)$ b. $(3x - 1)^2$ c. $(3x + 1)(3x - 1)$ d. $(x - 1)(9x + 1)$
- ____ 17. Factor completely: $2x^2 + x - 3$
a. $(x - 3)(2x + 1)$ b. $(x + 3)(2x - 1)$ c. $(x + 1)(2x - 3)$ d. $(x - 1)(2x + 3)$
- ____ 18. Factor completely: $x^2 - 16$
a. $(x + 16)(x - 1)$ b. $(x - 4)(x + 4)$ c. $(x - 4)^2$ d. $(x - 16)(x + 1)$

Factoring By Grouping Multiple Choice Test

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