



## Practice Questions

## Special Products and Factoring

**Directions:** Select the letter of the correct answer for each question below.

1) What is  $(x + 3)(x - 1)$ ?

- a)  $x^2 + 2x + 3$
- b)  $x^2 - 2x - 3$
- c)  $x^2 + 2x - 3$
- d)  $x^2 - 2x + 3$

2) Expand  $(2x - z)^2$

- a)  $4x^2 - 4xz + z^2$
- b)  $4x^2z - 4xz + z^2$
- c)  $4x^2 - 2xz + z^2$
- d)  $4x^2 - 4xz + 2z^2$

3) What is  $(a - p)(a + p)$

- a)  $a^2 + 2p^2$
- b)  $a^2 - p^2$
- c)  $2a^2 - 2p^2$
- d)  $a - p$

4) Factor  $x^2 - x - 12$

- a)  $(x - 4)(x - 3)$
- b)  $(x + 4)(x - 3)$
- c)  $(x + 4)(x + 3)$
- d)  $(x - 4)(x + 3)$

5) Factor  $2a^2b - 6ab$

- a)  $2ab(a - 3)$
- b)  $2ab(a - 3b)$
- c)  $2ab(a^2 - 3)$
- d)  $2a(ab - 3)$



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*To God be the glory!*