

Directions: For the following problems, choose an answer from among the multiple choices listed.

1. $(x + 1)(x - 1) =$

Choose:

- $x^2 + 2x - 1$
- $x^2 - 1$
- $x^2 + 1$



2. $(x + 4)^2 =$

Choose:

- $x^2 + 16$
- $x^2 + 4x + 16$
- $x^2 + 8x + 16$



3. $(a + 4)(a + 3) =$

Choose:

- $a^2 + 7a + 12$
- $a^2 + 12$
- $a^2 + a + 12$



4. $(x + 1)(x^2 + 2x + 1) =$

Choose:



- $x^3 + 2x^2 + x + 1$
- $x^3 + 3x^2 + 3x + 1$
- $x^3 + 3x^2 + x + 1$

5. $(2m + 6)(2m - 6) =$

Choose:



- $4m^2 - 36$
- $4m^2 + 36$
- $4m^2 + 24m - 36$

6. $(2x^2)(3x^2 + 5x - 4) =$

Choose:



- $5x^4 + 7x^3 - 6x^2$
- $6x^5 + 10x^2 - 8x$
- $6x^4 + 10x^3 - 8x^2$

7. $(2y - 1)^2 =$

Choose:



- $4y^2 + 1$
 - $4y^2 - 4y + 1$
 - $4y^2 - 2y + 1$
- _____

8. $(3a + 2b)(a + b) =$

Choose:



- $3a^2 + 2b^2$
 - $3a^2 + 6ab + 2b^2$
 - $3a^2 + 5ab + 2b^2$
- _____

9. $(x - 2)^3 =$

Choose:



- $x^3 - 8$
 - $x^3 - 6x^2 + 10x - 8$
 - $x^3 - 6x^2 + 12x - 8$
- _____

10. $(3x + 3)^2 =$



Choose:

- $9x^2 + 18x + 9$
 - $9x^2 + 12x + 9$
 - $9x^2 + 9$
-

11. $\left(\frac{1}{2}y - 50\right)\left(\frac{3}{5}y + 10\right) =$

Choose:

- $\frac{3}{10}y^2 - 25y + 500$
 - $\frac{3}{10}y^2 - 35y - 500$
 - $\frac{3}{10}y^2 - 25y - 500$
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