

Name _____

Find the product using FOIL. Write your answers in simplest form.

1. 

$$(2x + 3)(x + 2) = 2x(x + 2) + 3(x + 2) = 2x^2 + 4x + 3x + 6 = 2x^2 + 7x + 6$$

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

3. $(x + 3)(x + 4) = x^2 + 7x + 12$

4. $(2x + 3)(x + 2) = 2x^2 + 7x + 6$

5. $(2x + 1)(x + 3) = 2x^2 + 7x + 3$

6. $(3x + 7)(2x + 2) = 6x^2 + 20x + 14$

Find the absolute value of the product of opposite binomials.

7. $(3x + 2)(3x - 2) = 9x^2 - 4$

8. $(4x + 2)(4x - 2) = 16x^2 - 4$

Find the square of a binomial coefficient (find the product).

9. $(a + 4)^2 = a^2 + 8a + 16$

10. $(b + 7)^2 = b^2 + 14b + 49$

11. $(y + 6)^2 = y^2 + 12y + 36$

12. $(3a + 4)^2 = 9a^2 + 24a + 16$

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