

Lesson 7.2 Multiplying Polynomials Homework

DISTRIBUTING AND COMBINING LIKE TERMS:

DISTRIBUTE, AND THEN COMBINE LIKE TERMS. REMEMBER, ADD THE EXPONENTS WHEN MULTIPLYING VARIABLES.

1. $9x - 4(6 - 3x)$

2. $5(3b - 2a) - 7b$

3. $2(2x + 6) + 3(5x - 7)$

4. $6(4a - 2b) - 2(9b - 7a)$

5. $2y^2(7y + 3x) - 5y^3$

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

7. $4(3d^2 + 5d) - d(d^2 - 7d + 12)$

8. $3(2t^2 - 4t - 15) + 6t(5t + 2)$

MULTIPLYING POLYNOMIALS (FOIL):

DISTRIBUTE FIRST, OUTER, INNER, LAST, AND THEN COMBINE LIKE TERMS.

9. $(m - 3)(m + 1)$

10. $(2a - 3)(a - 2)$

11. $(3x + 1)(x + 2)$

12. $(2x - 3)(2x + 2)$

13. $(3a - b)(2a + 4b)$

14. $(2x + y)(3x - 2y)$

15. $(2b + 1)(b^2 - 5b + 4)$

16. $(y - 5)(4y^2 - 3y + 2)$