

Algebra I Worksheet #9 Unit 10 Selected Solutions

Perform the indicated operations. Express your answers in simplest form.

$$3. \quad 3x^2(2x^2 - 3x + 1) = 6x^4 - 9x^3 + 3x^2$$

$$7. \quad (x + 7)(5x - 2) = 5x^2 + 33x - 14$$

$$11. \quad (7x + 3)(7x - 3) = 49x^2 - 9$$

$$15. \quad (2x + 7)^2 = 4x^2 + 28x + 49$$

$$19. \quad (x^2 + 5x - 3)(x^2 - 5x + 3) = x^4 - 25x^2 + 30x - 9$$

$$\begin{aligned} &x^4 - 5x^3 + 3x^2 \\ &+ 5x^3 - 25x^2 + 15x \\ &- 3x^2 + 15x - 9 \end{aligned}$$