

Name: _____

Multiply Polynomials

Find each product.

① $(5x - 6)(4x - 1)$

② $(7m - 5n)(2m + 5n)$

③ $(4a + 7b)(3a - 2b)$

④ $(2x - 5)(4x^2 - 7x + 3)$

⑤ $5(x - 4)(2x - 3)$

⑥ $(4t + 2)(6t^2 - t + 2)$

⑦ $(3x - y)(6x^2 + 5xy - 7y^2)$

⑧ $(-6x^2 + x + 6)(-x + 8)$

⑨ $(2x + 1)(4x^2 - 2x + 1)$

⑩ $7s(7s^2 - 6sp + 2p^2)$

Name: _____

Multiply Polynomials

Answers

① $(5x - 6)(4x - 1)$

$20x^2 - 29x + 6$

② $(7m - 5n)(2m + 5n)$

$14m^2 + 25mn - 25n^2$

③ $(4a + 7b)(3a - 2b)$

$12a^2 + 13ab - 14b^2$

④ $(2x - 5)(4x^2 - 7x + 3)$

$8x^3 - 34x^2 + 41x - 15$

⑤ $5(x - 4)(2x - 3)$

$10x^2 - 55x + 60$

⑥ $(4t + 2)(6t^2 - t + 2)$

$24t^3 + 8t^2 + 6t + 4$

⑦ $(3x - y)(6x^2 + 5xy - 7y^2)$

$18x^3 + 9x^2y - 26xy^2 + 7y^3$

⑧ $(-6x^2 + x + 6)(-x + 8)$

$6x^3 - 49x^2 + 2x + 48$

⑨ $(2x + 1)(4x^2 - 2x + 1)$

$8x^3 + 1$

⑩ $7s(7s^2 - 6sp + 2p^2)$

$49s^3 - 42s^2p + 14sp^2$