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Math II

Name _____ ID: 1

Multiplying Polynomials

Date _____ Period _____

Find each product. State your solution in STANDARD FORM.

1) $(5m + 3)(m + 3)$

$5m^2 + \underline{15}m + \underline{3}m + 9$

$$\boxed{5m^2 + 18m + 9}$$

3) $(2n - 3)(4n - 3)$

$8n^2 - \underline{6}n - \underline{12}n + 9$

$$\boxed{8n^2 - 18n + 9}$$

5) $(3m - 5)(m + 5)$

$3m^2 + \underline{15}m - \underline{5}m - 25$

$$\boxed{3m^2 + 10m - 25}$$

7) $(3x - 5)(2x + 1)$

$6x^2 + \underline{3}x - \underline{10}x - 5$

$$\boxed{6x^2 - 7x - 5}$$

2) $(4n - 1)(3n + 3)$

$12n^2 + \underline{12}n - \underline{3}n - 3$

$$\boxed{12n^2 + 9n - 3}$$

4) $(3x + 2)(5x + 3)$

$15x^2 + \underline{9}x + \underline{10}x + 6$

$$\boxed{15x^2 + 19x + 6}$$

6) $(2x - 4)(5x + 5)$

$10x^2 + \underline{10}x - \underline{20}x - 20$

$$\boxed{10x^2 - 10x - 20}$$

8) $(3x - 4)(x + 5)$

$3x^2 + \underline{15}x - \underline{4}x - 20$

$$\boxed{3x^2 + 11x - 20}$$



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9) $(2x + 4)(2x + 3)$

$4x^2 + \underline{6x} + \underline{8x} + 12$

$4x^2 + 14x + 12$

11) $(2n + 2)(2n^2 + 5n - 1)$

$4n^3 + \underline{10n^2} - \underline{2n} + \underline{4n^2} + \underline{10n} - 2$

$4n^3 + 14n^2 + 8n - 2$

13) $(5x - 5)(x^2 - 3x + 1)$

$5x^3 - \underline{15x^2} + \underline{5x} - \underline{5x^2} + \underline{15x} - 5$

$5x^2 - 20x^2 + 20x - 5$

15) $(3x - 2)(4x^2 - 2x + 3)$

$12x^3 - \underline{6x^2} + \underline{9x} - \underline{8x^2} + \underline{4x} - 6$

$12x^3 - 14x^2 + 13x - 6$

10) $(4n - 2)(3n - 1)$

$12n^2 - \underline{4n} - \underline{6n} + 2$

$12n^2 - 10n + 2$

12) $(5n + 2)(4n^2 - n + 4)$

$20n^3 - \underline{5n^2} + \underline{20n} + \underline{8n^2} - \underline{2n} + 8$

$20n^3 + 3n^2 + 18n + 8$

14) $(2x - 1)(5x^2 - x - 5)$

$10x^3 - \underline{2x^2} - \underline{10x} - \underline{5x^2} + \underline{x} + 5$

$10x^3 - 7x^2 - 9x + 5$

16) $(2x - 4)(5x^2 - 3x - 2)$

$10x^3 - \underline{6x^2} - \underline{4x} - \underline{20x^2} + \underline{12x} + 8$

$10x^3 - 26x^2 + 8x + 8$

