

6-6 Polynomials - Multiplying (ver3)_hw

Find each product and place in DESCENDING order.

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

2) $(x + 2)(3x^2 + 2x + 2)$

3) $(3v - 5)(5v^2 + 2v + 4)$

4) $(5n + 1)(4n^2 - 4n - 4)$

5) $(-n - 4)(5n^2 - 3n + 4)$

6) $(5k - 4)(-2k^2 + 5k + 4)$

7) $(3n^2 + 2n - 2)(2n - 1)$

8) $(2b^2 + 5b - 5)(2b - 4)$

$$9) (n^2 + 3n + 1)(2n^2 + 2n + 1)$$

$$10) (3x^2 + 2x + 1)(3x^2 + 2x - 2)$$

$$11) (2n^2 - 2n + 3)(n^2 - 2n - 2)$$

$$12) (k^2 - 2k + 2)(3k^2 - 3k - 3)$$

$$13) (4r^2 + 3r - 3)(4r^2 - r + 3)$$

$$14) (2v^2 - 3v + 2)(5v^2 + 5v - 1)$$

$$15) (-x^2 - 5x - 3)(2x^2 - 5x - 5)$$

$$16) (3m^2 - m + 4)(-2m^2 - m + 4)$$

Answers to 6-6 Polynomials - Multiplying (ver3)_hw

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|---------------------------------------|-------------------------------------|----------------------------------|
| 1) $6x^3 + 15x^2 + 7x - 3$ | 2) $3x^3 + 8x^2 + 6x + 4$ | 3) $15v^3 - 19v^2 + 2v - 20$ |
| 4) $20n^3 - 16n^2 - 24n - 4$ | 5) $-5n^3 - 17n^2 + 8n - 16$ | 6) $-10k^3 + 33k^2 - 16$ |
| 7) $6n^3 + n^2 - 6n + 2$ | 8) $4b^3 + 2b^2 - 30b + 20$ | 9) $2n^4 + 8n^3 + 9n^2 + 5n + 1$ |
| 10) $9x^4 + 12x^3 + x^2 - 2x - 2$ | 11) $2n^4 - 6n^3 + 3n^2 - 2n - 6$ | 12) $3k^4 - 9k^3 + 9k^2 - 6$ |
| 13) $16r^4 + 8r^3 - 3r^2 + 12r - 9$ | 14) $10v^4 - 5v^3 - 7v^2 + 13v - 2$ | |
| 15) $-2x^4 - 5x^3 + 24x^2 + 40x + 15$ | 16) $-6m^4 - m^3 + 5m^2 - 8m + 16$ | |