

NAME: _____

P.I. A.A.13: Multiply monomials and polynomials

Multiply:

1. $-5x^4(4x^4 - 2y)$

2. $-2x^3(8x^3 + 2y)$

3. $3x^2(9x^3 + 2y)$

4. $-3x(5x^3 - 5y)$

5. $5x^4(5x^2 + 5y)$

6. $5x^2(6x^3 + 5y)$

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

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

[A] $6y^7 + 4y^6 - 12y^4 + 10y^3$

[B] $6y^7 + 3y^6 - 6y^4 + 5y^3$

[C] $6y^{12} + 4y^9 - 2y^3$

[D] $5y^7 + 4y^6 - 4y^4 + 7y^3$

9. $4b^4(5b^3 - 3b^2 + 2b + 6)$

[A] $9b^7 + b^6 + 6b^5 + 10b^4$

[B] $20b^7 - 12b^6 + 8b^5 + 24b^4$

[C] $20b^{12} - 12b^8 + 32b^4$

[D] $20b^7 + 2b^6 + 2b^5 + 6b^4$

10. $2v^2(5v^3 - 4v^2 + 2v - 3)$

[A] $10v^6 - 8v^4 - 2v^2$

[B] $10v^5 - 8v^4 + 4v^3 - 6v^2$

[C] $7v^5 - 2v^4 + 4v^3 - v^2$

[D] $10v^5 + 2v^4 + 2v^3 - 3v^2$

11. Find the product $2n(n^2 + 3n + 4)$.

[A] $n^2 + 5n + 4$ [B] $2n^3 + 5n^2 + 6n$

[C] $2n^3 + 6n^2 + 8n$ [D] $2n^2 + 6n + 8$

[E] $2n^3 + 3n + 4$

[1] $\underline{-20x^8 + 10x^4y}$

[2] $\underline{-16x^6 - 4x^3y}$

[3] $\underline{27x^5 + 6x^2y}$

[4] $\underline{-15x^4 + 15xy}$

[5] $\underline{25x^6 + 25x^4y}$

[6] $\underline{30x^5 + 25x^2y}$

[7] $\underline{-12x^5 - 4x^3y}$

[8] \underline{A}

[9] \underline{B}

[10] \underline{B}

[11] \underline{C}