Integrated Algebra Practice: A.A.14
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NAME:_____

P.I. A.A.14: Divide a polynomial by a monomial or binomial, where the quotient has no remainder

Divide:

1. $\frac{9x^3y^4 + 15x^2y + 3xy}{3xy}$

[A] $3x^2y^3 + 15x^2y + 3xy$

[B] $3x^2y^3 + 5x + xy$

[C] $3x^2y^3 + 5x + 1$ [D] $3x^2y^3 + 15x^2y + 1$

2. $\frac{6x^3y^4 + 12x^2y + 3x^2y^2}{3xy}$

[A] $2x^2y^3 + 4x + 1$ [B] $2x^2y^3 + 12x^2y + 1$

[C] $2x^2y^3 + 12x^2y + 3xy$

[D] $2x^2y^3 + 4x + xy$

3. $\frac{8x^2y^4 + 8x^2y + 2xy}{2xy}$

[A] $4xy^3 + 8x^2y + 1$ [B] $4xy^3 + 4x + xy$

[C] $4xy^3 + 4x + 1$ [D] $4xy^3 + 8x^2y + 2xy$

4. $\frac{-12x^6 + 18x^2 - 30x}{6x^4}$

5. $\frac{3x^8 - 12x^4 - 12x^3}{3x^6}$

6. $\frac{35x^6 + 14x^4 - 14x^2}{7x^5}$

7. $\frac{5x^2 - 10x + 2}{-5x}$

8. $\frac{4x^2 - 8x + 5}{-4x}$

9. $\frac{4x^2 - 20x + 3}{-4x}$

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[1] C

[2] D

[3] C

[4] $-2x^2 + \frac{3}{x^2} - \frac{5}{x^3}$

[5] $x^2 - \frac{4}{x^2} - \frac{4}{x^3}$

[6] $5x + \frac{2}{x} - \frac{2}{x^3}$

[7] $-x + 2 - \frac{2}{5x}$

[8] $-x + 2 - \frac{5}{4x}$

[9] $-x + 5 - \frac{3}{4x}$