

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

[1] C

[2] D

[3] C

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

[6]  $5x + \frac{2}{x} - \frac{2}{x^3}$   
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[7]  $-x + 2 - \frac{2}{5x}$   
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[8]  $-x + 2 - \frac{5}{4x}$   
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[9]  $-x + 5 - \frac{3}{4x}$   
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