

Algebra II Practice A.APR.D.6: Division of Polynomials 1

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NAME: _____

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.
$$\frac{16xy^3 + 20xy^2 + 4xy}{4xy}$$

[A] $4y^2 + 5y + 1$ [B] $4y^2 + 20xy^2 + 4xy$

[C] $4y^2 + 5y + xy$ [D] $4y^2 + 20xy^2 + 1$

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

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

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

5.
$$\frac{-12x^6 + 18x^2 - 30x}{6x^4}$$

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

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

8.
$$\frac{5x^2 - 10x + 2}{-5x}$$

9.
$$\frac{4x^2 - 8x + 5}{-4x}$$

10.
$$\frac{4x^2 - 20x + 3}{-4x}$$

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[1] C

[2] D

[3] A

[4] C

[5]
$$\frac{-2x^2 + \frac{3}{x^2} - \frac{5}{x^3}}{\hspace{10em}}$$

[6]
$$\frac{x^2 - \frac{4}{x^2} - \frac{4}{x^3}}{\hspace{10em}}$$

[7]
$$\frac{5x + \frac{2}{x} - \frac{2}{x^3}}{\hspace{10em}}$$

[8]
$$\frac{-x + 2 - \frac{2}{5x}}{\hspace{10em}}$$

[9]
$$\frac{-x + 2 - \frac{5}{4x}}{\hspace{10em}}$$

[10]
$$\frac{-x + 5 - \frac{3}{4x}}{\hspace{10em}}$$