

Name: _____

Date: _____

Score: _____

Polynomials Practice Worksheet

Add the given expressions

1 $(6 + 2n^3) + (5n^2 + 2)$

2 $(6m^5 + 1) + (4m^5 + 9m - 1)$

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

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

Subtract the given expressions

5 $(-2x^3 + x) - (7x - 3 + 7x^3)$

6 $(3a^2 + 2a - 2) - (a^2 - 3a + 7)$

Multiply the given expressions

7 $(4v - 2)(7v^2 + 6v - 8)$

8 $(4x^2 + 3x + 1)(7x^2 - 4x - 2)$

Divide the given expressions

9 $(n^2 - n - 80) \div (n - 9)$

10 $(2x^{11} - 5x^7 - 10x^6) \div 2x^3$

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Answers

1 $(6 + 2n^3) + (5n^2 + 2)$

$$2n^3 + 5n^2 + 8$$

2 $(6m^5 + 1) + (4m^5 + 9m - 1)$

$$10m^5 + 9m$$

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

$$y^3 + 4y^2 - y - 8$$

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

$$5v^4 + 4v^2$$

5 $(-2x^3 + x) - (7x - 3 + 7x^3)$

$$-9x^3 - 6x + 3$$

6 $(3a^2 + 2a - 2) - (a^2 - 3a + 7)$

$$2a^2 + 5a - 9$$

7 $(4v - 2)(7v^2 + 6v - 8)$

$$28v^3 + 10v^2 - 44v + 16$$

8 $(4x^2 + 3x + 1)(7x^2 - 4x - 2)$

$$28x^4 + 5x^3 - 13x^2 - 10x - 2$$

9 $(n^2 - n - 80) \div (n - 9)$

$$n + 8 - \frac{8}{n - 9}$$

10 $(2x^{11} - 5x^7 - 10x^6) \div 2x^3$

$$\frac{x^3(2x^5 - 5x - 10)}{2}$$