

Name :.....

Date :.....

Adding & Subtracting

Polynomials

Find the sum or difference for each set of polynomial expressions. Make sure your answer is simplified and in standard form.

1.

$$(3m + 4m^2 - 7) + (-5m - 9 + 2m)$$

2.

$$(3m + 4m^2 - 7) - (-5m - 9 + 2m)$$

3.

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

4.

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

5.

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

6.

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

7.

$$(-7p^2 + 9p - 5p^3) + (-6p^3 + p - 10)$$

8.

$$(-7p^2 + 9p - 5p^3) - (-6p^3 + p - 10)$$

Answer key

Adding & Subtracting

Polynomials

Find the sum or difference for each set of polynomial expressions. Make sure your answer is simplified and in standard form.

1.

$$(3m + 4m^2 - 7) + (-5m - 9 + 2m)$$

$$3m + 4m^2 - 7 - 5m - 9 + 2m$$

$$4m^2 - 16$$

2.

$$(3m + 4m^2 - 7) - (-5m - 9 + 2m)$$

$$3m + 4m^2 - 7 + 5m + 9 - 2m$$

$$4m^2 + 6m + 2$$

3.

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

$$8x^2 - 1 + 4x^2 - 3x$$

$$12x^2 - 3x - 1$$

4.

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

$$8x^2 - 1 - 4x^2 + 3x$$

$$4x^2 + 3x - 1$$

5.

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

$$3y^2 + 5y - 4 + 5y^2 - 6y + 9$$

$$8y^2 - y + 5$$

6.

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

$$3y^2 + 5y - 4 - 5y^2 + 6y - 9$$

$$-2y^2 + 11y - 13$$

7.

$$(-7p^2 + 9p - 5p^3) + (-6p^3 + p - 10)$$

$$-7p^2 + 9p - 5p^3 - 6p^3 + p - 10$$

$$-11p^3 - 7p^2 + 10p - 10$$

8.

$$(-7p^2 + 9p - 5p^3) - (-6p^3 + p - 10)$$

$$-7p^2 + 9p - 5p^3 + 6p^3 - p - 10$$

$$p^3 - 7p^2 + 8p - 10$$