**Simplify polynomial expressions****1**

Simplify by combining like terms.

$$6 - 2x - 5x$$

A $-7x + 6$

B $-2x - 5x + 6$

C $-2x + 6$

D $3x + 6$

2

Simplify by combining like terms.

$$8 - 3y - 5xy + xy - 3x$$

A $-4xy - 3x - 3y + 8$

B $-5xy + xy - 3x - 3y + 8$

C $-5xy - 3x - 3y + 8$

D $-6xy - 3x - 3y + 8$

3

Which answer is the same expression as this

$$(y - 4)(z - 5)$$

A $yz - 4z - 5y + 20$

B $9yz - 4z + 5y + 20$

4

Which answer is the same expression as this

$$(r + 8)(x - 2)$$

A $rx + 8x - 2r - 16$

B $rx + 2x - 8r - 16$

5

Simplify by combining like terms.

$$\frac{7}{2} + 3x - \frac{5}{3}x$$

A $\frac{14}{3}x + \frac{7}{2}$

B $3x - \frac{5}{3}x + \frac{7}{2}$

C $\frac{4}{3}x + \frac{7}{2}$

D $3x + \frac{7}{2}$

6

Simplify by combining like terms.

$$-8x + 4x + 7 + 7x^3 - 5x^2$$

A $7x^3 - 5x^2 - 8x + 7$

B $7x^3 - 5x^2 - 4x + 7$

C $7x^3 - 5x^2 - 12x + 7$

D $7x^3 - 5x^2 - 8x + 4x + 7$

7

Which answer is the same expression as this

$$(t - 3)(t + 6)$$

A $9t^2 + 3t - 18$

B $t^2 + 3t - 18$

8

Which answer is the same expression as this

$$(m + 4)(6m + 7)$$

A $m^2 + 28m + 31$

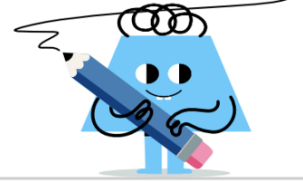
B $6m^2 - 31m + 28$

C $6m^2 + 28m + 31$

D $6m^2 + 31m + 28$

E $6m^2 + 31m - 28$

F $m^2 + 31m - 28$

**Simplify polynomial expressions****9**

Simplify by combining like terms.

$$2x^3y^2 - 2x^4 + 9x^3y^2 + 6x^4y - 8y^4$$

- A $6x^4y + 2x^3y^2 - 2x^4 - 8y^4$
- B $6x^4y + 2x^3y^2 + 9x^3y^2 - 2x^4 - 8y^4$
- C $6x^4y - 7x^3y^2 - 2x^4 - 8y^4$
- D $6x^4y + 11x^3y^2 - 2x^4 - 8y^4$

11

Simplify by combining like terms.

$$-\frac{9}{2}x + \frac{7}{2}x^2 + 4x + 8$$

- A $\frac{7}{2}x^2 - \frac{9}{2}x + 4x + 8$
- B $\frac{7}{2}x^2 - \frac{9}{2}x + 8$
- C $\frac{7}{2}x^2 - \frac{17}{2}x + 8$
- D $\frac{7}{2}x^2 - \frac{1}{2}x + 8$

12

Simplify by combining like terms.

$$7y^2 - 3xy + 2 + 8xy - 2x$$

- A $-3xy + 7y^2 - 2x + 2$
- B $-3xy + 8xy + 7y^2 - 2x + 2$
- C $5xy + 7y^2 - 2x + 2$
- D $-11xy + 7y^2 - 2x + 2$

14

Which answer is the same expression as this

$$(6z + 6)(m + 3)$$

- A $3zm + 6m + 3z + 18$
- B $zm + 18m + 3z + 6$
- C $6zm + 18m + 3z + 6$
- D $6zm + 6m + 3z + 18$
- E $6zm + 6m + 18z + 18$
- F $zm + 3m + 18z + 6$

10

Simplify by combining like terms.

$$-\frac{7}{4}x^3y^4 - 9x - \frac{5}{4}x^3 - \frac{1}{4}x^3y^4 - \frac{9}{4}y^4$$

- A $-\frac{7}{4}x^3y^4 - \frac{9}{4}y^4 - \frac{5}{4}x^3 - 9x$
- B $-2x^3y^4 - \frac{9}{4}y^4 - \frac{5}{4}x^3 - 9x$
- C $-\frac{3}{2}x^3y^4 - \frac{9}{4}y^4 - \frac{5}{4}x^3 - 9x$
- D $-\frac{7}{4}x^3y^4 - \frac{1}{4}x^3y^4 - \frac{9}{4}y^4 - \frac{5}{4}x^3 - 9x$

13

Which answer is the same expression as this

$$(t + 7)(t - 5)$$

- A $t^2 + 2t - 12$
- B $t^2 + 2t - 35$

15

Which answer is the same expression as this

$$(q + 4)(q - 8)$$

- A $q^2 - 4q - 32$
- B $q^2 + 32q - 32$