



Add polynomial expressions

1

Is the simplification correct?

$$-6x + 3 - 9x + 3x^2 = 3x^2 - 15x + 3$$

A

Yes

B

No

2

Is the simplification correct?

$$-2 - 6x^2 + 9xy + 7x^2y + 3x^2y = 10x^2y - 6x^2 + 9xy - 2$$

A

No

B

Yes

3

Simplify by combining like terms.

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

A

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

B

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

C

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

D

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

4

Simplify by combining like terms.

$$6x + 6 + 8x^2 - 3x$$

A

$$8x^2 + 3x + 6$$

B

$$8x^2 + 6x + 6$$

C

$$8x^2 + 9x + 6$$

D

$$8x^2 + 6x - 3x + 6$$

5

Simplify by combining like terms.

$$4xy^4 - 6xy^4 + 7x^4 + 7x^3y^2 + 1$$

A

$$7x^3y^2 + 4xy^4 - 6xy^4 + 7x^4 + 1$$

B

$$7x^3y^2 - 2xy^4 + 7x^4 + 1$$

C

$$7x^3y^2 + 10xy^4 + 7x^4 + 1$$

D

$$7x^3y^2 + 4xy^4 + 7x^4 + 1$$

6

Simplify by combining like terms.

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

A

$$-4x^4 + 8x^3 - 10x^2 - 9$$

B

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

C

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

D

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

7

Simplify by combining like terms.

$$x^2 - 2x^2 - 5x + 5$$

A

$$x^2 - 5x + 5$$

B

$$x^2 - 2x^2 - 5x + 5$$

C

$$3x^2 - 5x + 5$$

D

$$-x^2 - 5x + 5$$

8

Simplify by combining like terms.

$$-7x^3y^3 + 1 - 4x^2y^4 + x^3y^3 + xy^4$$

A

$$-7x^3y^3 + x^3y^3 - 4x^2y^4 + xy^4 + 1$$

B

$$-7x^3y^3 - 4x^2y^4 + xy^4 + 1$$

C

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

D

$$-6x^3y^3 - 4x^2y^4 + xy^4 + 1$$

**Add polynomial expressions****9**

Simplify by combining like terms.

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

- A $9x^4 + 4x^3 + 2x^2 + 9x$
- B $9x^4 + 4x^3 + 2x^2 + 15x$
- C $9x^4 + 4x^3 + 2x^2 + 3x$
- D $9x^4 + 4x^3 + 2x^2 + 9x - 6x$

10

Simplify by combining like terms.

$$-9x + 7x^2 - 4x + 5$$

- A $7x^2 - 9x - 4x + 5$
- B $7x^2 - 13x + 5$
- C $7x^2 - 5x + 5$
- D $7x^2 - 9x + 5$

11

Simplify by combining like terms.

$$-3x^3y - 4x^3y + 3x^4y^2 + 9y^3 + 2xy^3$$

- A $3x^4y^2 - 7x^3y + 2xy^3 + 9y^3$
- B $3x^4y^2 - 3x^3y - 4x^3y + 2xy^3 + 9y^3$
- C $3x^4y^2 - 3x^3y + 2xy^3 + 9y^3$
- D $3x^4y^2 + x^3y + 2xy^3 + 9y^3$

12

Simplify by combining like terms.

$$6x^4 - x^2 + 2 - x^3 - 7x^2$$

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