



Combine like terms with whole-number coefficients

1

Which pair of terms are like terms?

$$5 + 7y - 8x - 6xy + xy$$

A $5 + 7y - 8x - 6xy + xy$

B $5 + 7y - 8x - 6xy + xy$

C $5 + 7y - 8x - 6xy + xy$

D $5 + 7y - 8x - 6xy + xy$

2

Is the simplification correct?

$$-4x + 5 + 7x = -4x + 7x + 5$$

A

Yes

B

No

3

Are the boxed terms like terms?

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

A

Yes

B

No

4

Is the simplification correct?

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

A

No

B

Yes

5

Are the boxed terms like terms?

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

A

Yes

B

No

6

Is the simplification correct?

$$-2 + 9x^2 - 9x + 5x^4 + x^4 = 6x^4 + 9x^2 - 9x - 2$$

A

Yes

B

No

7

Is the simplification correct?

$$2xy + 4 - 9y - 7xy - 4x = 2xy - 7xy - 4x - 9y + 4$$

A

No

B

Yes

8

Is the simplification correct?

$$-3x^3y - 2x^3y^3 - 6x^3y - 3x^2y - 9y^4 = -2x^3y^3 - 3x^3y - 6x^3y - 9y^4 - 3x^2y$$

A

Yes

B

No



Combine like terms with whole-number coefficients

9

Simplify by combining like terms.

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

A $-12x^2 - 4x - 4$

B $6x^2 - 4x - 4$

C $-3x^2 - 4x - 4$

D $-3x^2 - 9x^2 - 4x - 4$

10

Simplify by combining like terms.

$$5x^3y^2 - 6x^4y^3 + x^3y^2 + 8x^3y^4 + x^3y$$

A $-6x^4y^3 + 8x^3y^4 + 5x^3y^2 + x^3y$

B $-6x^4y^3 + 8x^3y^4 + 5x^3y^2 + x^3y^2 + x^3y$

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

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

11

Simplify by combining like terms.

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

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

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

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

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

12

Simplify by combining like terms.

$$4x - 3 + 4x$$

A $0x - 3$

B $4x + 4x - 3$

C $4x - 3$

D $8x - 3$

13

Simplify by combining like terms.

$$-xy - 2x - 5y + 9xy + 5$$

A $-xy + 9xy - 2x - 5y + 5$

B $-10xy - 2x - 5y + 5$

C $-xy - 2x - 5y + 5$

D $8xy - 2x - 5y + 5$