



Combine like terms

1

Are the boxed terms like terms?

$$\boxed{6x} + \frac{2}{3}xy^2 + \boxed{\frac{1}{4}x^2y} + \frac{7}{4}xy^2 + 7x^2y^2$$

A

No

B

Yes

2

Is the simplification correct?

$$4x + 2x + 7 = 6x + 7$$

A

No

B

Yes

3

Is the simplification correct?

$$7x - 9 + 9x + x^2 = x^2 + 7x + 9x - 9$$

A

Yes

B

No

4

Is the simplification correct?

$$4x - 8xy - 3xy - 6 + 9y = -11xy + 4x + 9y - 6$$

A

No

B

Yes

5

Is the simplification correct?

$$-2xy^2 + 2x^2y^2 - 7xy^2 + 6y^2 - 4 = 2x^2y^2 - 2xy^2 - 7xy^2 + 6y^2 - 4$$

A

No

B

Yes

6

Is the simplification correct?

$$-9y^3 + 5xy^2 - x^4y + 8x^4y^3 - xy^2 = 8x^4y^3 - x^4y + 5xy^2 - xy^2 - 9y^3$$

A

No

B

Yes

7

Is the simplification correct?

$$9 - \frac{5}{4}x + \frac{3}{2}x = \frac{1}{4}x + 9$$

A

No

B

Yes

8

Is the simplification correct?

$$\frac{1}{2}x - \frac{9}{2} - \frac{7}{3}x^2 + \frac{7}{2}x^2 = -\frac{7}{3}x^2 + \frac{7}{2}x^2 + \frac{1}{2}x - \frac{9}{2}$$

A

Yes

B

No



Combine like terms

9

Is the simplification correct?

$$-\frac{5}{4}x^3 - \frac{7}{3} + \frac{7}{2}x^3 + x^2 + \frac{5}{2}x = \frac{9}{4}x^3 + x^2 + \frac{5}{2}x - \frac{7}{3}$$

A

Yes

B

No

10

Is the simplification correct?

$$-7y + \frac{4}{3}xy - xy - \frac{3}{2}x - \frac{3}{4} = \frac{4}{3}xy - xy - \frac{3}{2}x - 7y - \frac{3}{4}$$

A

Yes

B

No

11

Is the simplification correct?

$$-\frac{3}{2}x^3 + \frac{1}{2}x^4y + \frac{3}{4}x^4y + 6x^4y^2 + x^2y^2 = 6x^4y^2 + \frac{1}{2}x^4y + \frac{3}{4}x^4y + x^2y^2 - \frac{3}{2}x^3$$

A

Yes

B

No

12

Simplify by combining like terms.

$$2x^2 + \frac{5}{3}x + 8 + \frac{1}{3}x$$

A

$$2x^2 + \frac{4}{3}x + 8$$

B

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

C

$$2x^2 + \frac{5}{3}x + \frac{1}{3}x + 8$$

D

$$2x^2 + \frac{5}{3}x + 8$$

13

Simplify by combining like terms.

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

A

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

B

$$5x^2 - 6x - 6$$

C

$$-2x^2 - 6x - 6$$

D

$$-9x^2 - 6x - 6$$

14

Simplify by combining like terms.

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

A

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

B

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

C

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

D

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

15

Simplify by combining like terms.

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

A

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

B

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

C

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

D

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

**Combine like terms****16**

Simplify by combining like terms.

$$5x + \frac{1}{3}xy - \frac{9}{4}x^4y^3 + \frac{1}{3}x^3y + 8x^4y^3$$

A

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

B

$$-\frac{41}{4}x^4y^3 + \frac{1}{3}x^3y + \frac{1}{3}xy + 5x$$

C

$$-\frac{9}{4}x^4y^3 + 8x^4y^3 + \frac{1}{3}x^3y + \frac{1}{3}xy + 5x$$

D

$$\frac{23}{4}x^4y^3 + \frac{1}{3}x^3y + \frac{1}{3}xy + 5x$$

17

Simplify by combining like terms.

$$\frac{5}{4}xy^2 - \frac{5}{3}x - \frac{4}{3}y^2 - \frac{7}{4}x^2 - \frac{3}{2}xy^2$$

A

$$\frac{5}{4}xy^2 - \frac{7}{4}x^2 - \frac{4}{3}y^2 - \frac{5}{3}x$$

B

$$\frac{11}{4}xy^2 - \frac{7}{4}x^2 - \frac{4}{3}y^2 - \frac{5}{3}x$$

C

$$\frac{5}{4}xy^2 - \frac{3}{2}xy^2 - \frac{7}{4}x^2 - \frac{4}{3}y^2 - \frac{5}{3}x$$

D

$$-\frac{1}{4}xy^2 - \frac{7}{4}x^2 - \frac{4}{3}y^2 - \frac{5}{3}x$$

18

Simplify by combining like terms.

$$-\frac{4}{3}xy - 4y - 4xy - \frac{3}{2} - 7x$$

A

$$-\frac{16}{3}xy - 7x - 4y - \frac{3}{2}$$

B

$$\frac{8}{3}xy - 7x - 4y - \frac{3}{2}$$

C

$$-\frac{4}{3}xy - 4xy - 7x - 4y - \frac{3}{2}$$

D

$$-\frac{4}{3}xy - 7x - 4y - \frac{3}{2}$$

19

Simplify by combining like terms.

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

A

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

B

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

C

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

D

$$x^2y + 7y^2 - x + 4$$