



Add and subtract polynomial functions

1

Is the simplification correct?

$$-6x - 8 + 7x = -6x + 7x - 8$$

A

Yes

B

No

2

Is the simplification correct?

$$6x^2 + 7x + 7x^2 - 4 = 13x^2 + 7x - 4$$

A

No

B

Yes

3

Is the simplification correct?

$$6x^2 - \frac{1}{2} + \frac{5}{4}x + 8x = 6x^2 + \frac{37}{4}x - \frac{1}{2}$$

A

No

B

Yes

4

Is the simplification correct?

$$\frac{2}{3}x + 6x^2 + \frac{7}{3}x^3 - \frac{8}{3}x^3 - x^4 = -x^4 + \frac{7}{3}x^3 - \frac{8}{3}x^3 + 6x^2 + \frac{2}{3}x$$

A

No

B

Yes

5

Simplify by combining like terms.

$$8x + 5 - 8x^2 - 6x^2$$

A

$$-2x^2 + 8x + 5$$

B

$$-14x^2 + 8x + 5$$

C

$$-8x^2 - 6x^2 + 8x + 5$$

D

$$-8x^2 + 8x + 5$$

6

Simplify by combining like terms.

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

A

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

B

$$\frac{7}{2}x^2 - \frac{1}{2}x + 8$$

C

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

D

$$\frac{7}{2}x^2 - \frac{17}{2}x + 8$$

7

Simplify by combining like terms.

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

A

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

B

$$15x^2 - 9x + 2$$

C

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

D

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

8

Simplify by combining like terms.

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

A

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

B

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

C

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

D

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

**Add and subtract polynomial functions****9**

Simplify by combining like terms.

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

A

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

B

$$-\frac{23}{2}x^2 + \frac{1}{2}x - 3$$

C

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

D

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

10

Simplify by combining like terms.

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

A

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

B

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

C

$$-\frac{11}{2}x^2 - 3x - 1$$

D

$$-\frac{5}{2}x^2 - 3x - 1$$

11

Simplify by combining like terms.

$$-8x + 6x^2 - 7 + 4x$$

A

$$6x^2 - 8x - 7$$

B

$$6x^2 - 12x - 7$$

C

$$6x^2 - 8x + 4x - 7$$

D

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

12

Simplify by combining like terms.

$$\frac{1}{2}x + \frac{3}{2}x - \frac{5}{2} - \frac{7}{3}x^2$$

A

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

B

$$-\frac{7}{3}x^2 + \frac{1}{2}x + \frac{3}{2}x - \frac{5}{2}$$

C

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

D

$$-\frac{7}{3}x^2 + \frac{1}{2}x - \frac{5}{2}$$