

Classify polynomials by number of terms

1

Are the boxed terms like terms?

$$-8x + 9 - \boxed{x^2} - \boxed{5x^2}$$

A

Yes

B

No

2

Are the boxed terms like terms?

$$9x^3y^4 + 6x^2 - \boxed{4xy} - \boxed{9xy} + 3x^2y$$

A

Yes

B

No

3

Is the simplification correct?

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

A

No

B

Yes

4

Simplify by combining like terms.

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

A

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

B

$$-6x^2 - 3x - 3$$

C

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

D

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

5

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

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

6

Simplify by combining like terms.

$$8y^2 + x^2y^2 + 5 - 9x^2y^2 + xy^2$$

A

$$x^2y^2 - 9x^2y^2 + xy^2 + 8y^2 + 5$$

B

$$x^2y^2 + xy^2 + 8y^2 + 5$$

C

$$10x^2y^2 + xy^2 + 8y^2 + 5$$

D

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

7

Simplify by combining like terms.

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

A

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

B

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

C

$$x^3y^3 - 9x^3y^2 - 13xy^4 + x^4$$

D

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

8

Simplify by combining like terms.

$$-9x - 2x^2 - 6x - 7$$

A

$$-2x^2 - 9x - 6x - 7$$

B

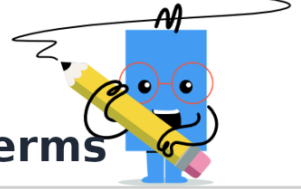
$$-2x^2 - 3x - 7$$

C

$$-2x^2 - 15x - 7$$

D

$$-2x^2 - 9x - 7$$

**Classify polynomials by number of terms****9**

Simplify by combining like terms.

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

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

B $-3x^3 - x^2 + 5x - 9$

C $-3x^3 - x^2 - x - 9$

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

10

Simplify by combining like terms.

$$9x^2y^2 + 9y - 3x - 9x^2y + 5x^2y^2$$

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

B $9x^2y^2 + 5x^2y^2 - 9x^2y - 3x + 9y$

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

D $14x^2y^2 - 9x^2y - 3x + 9y$

11

Simplify by combining like terms.

$$9x^3y^4 - x^3y^4 + 5x^3y - 7 - 7xy^4$$

A $9x^3y^4 - 7xy^4 + 5x^3y - 7$

B $8x^3y^4 - 7xy^4 + 5x^3y - 7$

C $9x^3y^4 - x^3y^4 - 7xy^4 + 5x^3y - 7$

D $10x^3y^4 - 7xy^4 + 5x^3y - 7$

12

Simplify by combining like terms.

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

A $8x^2 + 8x - 4$

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

C $8x^2 + 8x + x - 4$

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