

1. Classify the following:

$$4a^5 - 6a^4 + 2a$$



Monomial



Binomial



Trinomial

2. Classify the following:

5a



Monomial



Binomial



Trinomial

3. Classify the following:

$$3x^4 + 2x$$



Monomial



Binomial



Trinomial

4. True or False?

$$(4c)^2 = &c^2$$

$$+^2 c^2$$

$$+ (a c^2)^2$$



True



False

5. True or False?

$$2x(-xy)(-y^2) = 2x^2y^2$$

$$2x^2y^3$$



True



False

6. True or False?

$$(-5x^2)(7xy^3) = -35x^3y^3$$



True



False

7. True or False?

$$(-x^{3}y)(6xy)^{2} = -6x^{4}y^{3}$$

$$(-x^{3}y)(36x^{2}y^{2})$$



True



False

8. True or False?

$$7x^0 - (6x)^0 = 1$$

$$7 - (6x)^0 = 1$$

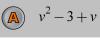


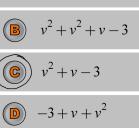
True



False

9. Which is in standard form?





$$v^2 + v - 3$$

$$(D) -3 + v + v^2$$

10. Which is in standard form?

$$\bigcirc -a^4 - ab^4 + a^3b + a^2b^3$$

$$\bigcirc$$
 $-ab^4 + a^2b^3 + a^3b - a^4$

11. What is the degree of the polynomial?

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











12. What is the degree of the polynomial?

$$-a^4b^2 + a^3b^3 + a^2b^4 - ab^5$$

- (A)
- (B)
- **©** 10
- **D** 24

13. Simplify:

$$6x + 3y - 5y - 6 + 2x + 7 - 3y$$

- A
- 4xy
- B
- 8x 5y + 1
- (C)
- 8x + 11y + 1
- 8x 2y + 1

14. Simplify:

$$a^3(a^3)(a^3)$$

- \bigcirc 3 a^9
- (B) $3a^{27}$
- a^{27}

15. Simplify:

$$(2x-7)^2$$

 $(2x-7)(2x-7)$

- $4x^2 49$
- $4x^2 + 49$
- $4x^2 28x + 49$

16. Simplify:

$$5g(g^2 - 2g + 1)$$

- $69 \cdot 5g^2 10g + 5$
- \bigcirc $-10g^4$

17. Simplify: $\frac{25a^2b^3}{5a}$



- O 13
- B)5ab³
- © 20ab³

18. Simplify:

$$(4x+3)(2x-1)$$

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

$$8x^2 - 3$$

$$8x-3$$

19. Simplify:

$$\left(m^3n^7\right)^4$$

$$4m^{12}n^{28}$$

$$m^{12}n^{28}$$

$$m^7n^{11}$$

20. How would you go about simplifying the following expression:

$$-2x^{2} + x + 3 - 5(x^{2} + 2x - 1)$$

21. How would you go about simplifying the following expression:

$$\frac{\left(6c^2 + 5c - 3\right) - \left(3c^2 + 8c - 1\right)}{\text{Keep signs}}$$

22. How would you go about simplifying the following expression:

$$5a + [3b - (-2a + 4b)]$$

$$5a + [3b + 2a - 4b]$$

$$5a + [2a - b]$$

$$6a + [2a - b]$$

$$6a + 2a - b$$

$$7a + b$$

23. How would you go about simplifying the following expression:

$$(3m-2)(2m+3) - (m-5)(m+5)$$
Foil

(trinomial) - (binomial)

A

Kap signs change signs

24. How would you go about simplifying the following expression:

$$\frac{12a^3x - 8a^2x + 4ax}{4ax}$$