



1. Which of the following is a like term of $(-5fg)$?

- (i) $5gh$ (ii) $3fg$ (iii) $(-7g)$ (iv) $8f$ (v) $(-fgh)$

2. Which of the following terms can be added to $(-9no)$?

- (i) $(-7op)$ (ii) $(-9np)$ (iii) $(-2nop)$ (iv) $(-6no)$ (v) $(-3o)$

3. The value of $\frac{1}{2}rs \left(\frac{1}{2}qrs^2 + \frac{1}{2}s^2 \right)$ is

- (i) $\left(\frac{1}{4}qr^2s^3 - \frac{1}{4}rs^3 \right)$ (ii) $\left(\frac{1}{6}qr^2s^3 + \frac{1}{4}rs^3 \right)$ (iii) $\left(\frac{1}{4}qr^2s^3 + \frac{3}{4}rs^3 \right)$ (iv) $\left(\frac{1}{4}qr^2s^3 + \frac{1}{4}rs^3 \right)$ (v) $\left(\frac{1}{2}qr^2s^3 + \frac{1}{4}rs^3 \right)$

4. The value of $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{3}$ is

- (i) $\frac{1}{12}$ (ii) $\frac{1}{4}$ (iii) $\frac{1}{10}$ (iv) $\left(-\frac{1}{12}\right)$ (v) $\frac{1}{14}$

5. The value of $(6w^2 - 2w - 18x^2 + 8x) + (3w^2x^2 - w^2x + 9w + 2x^2)$ is

- (i) $(3w^2x^2 + 2w^2x + 6w^2 + 7w - 16x^2 + 8x)$ (ii) $(2w^2x^2 - w^2x + 6w^2 + 7w - 16x^2 + 8x)$
(iii) $(3w^2x^2 - 3w^2x + 6w^2 + 7w - 16x^2 + 8x)$ (iv) $(3w^2x^2 - w^2x + 6w^2 + 7w - 16x^2 + 8x)$
(v) $(4w^2x^2 - w^2x + 6w^2 + 7w - 16x^2 + 8x)$

6. The value of $(6d^5 + 8d^4 - 2d^2) + (5d^5 - 8d^2 + 7d) + (5d^5 + 9d^2 + 9) + (d^5 + 2d - 1)$ is

- (i) $(14d^5 + 8d^4 - d^2 + 9d + 8)$ (ii) $(17d^5 + 8d^4 - d^2 + 9d + 8)$ (iii) $(16d^5 + 8d^4 - d^2 + 9d + 8)$
(iv) $(18d^5 + 8d^4 - d^2 + 9d + 8)$ (v) $(19d^5 + 8d^4 - d^2 + 9d + 8)$

7. The value of $(-8xy + 5y - 7) - (6xy + 9y + 5)$ is

- (i) $(-14xy - y - 12)$ (ii) $(-14xy - 7y - 12)$ (iii) $(-15xy - 4y - 12)$ (iv) $(-13xy - 4y - 12)$
(v) $(-14xy - 4y - 12)$

8. The value of $(8g^2 - 6g + 2) + (3g^2 - 3g - 6)$ is

- (i) $(10g^2 - 9g - 4)$ (ii) $(12g^2 - 9g - 4)$ (iii) $(13g^2 - 9g - 4)$ (iv) $(9g^2 - 9g - 4)$ (v) $(11g^2 - 9g - 4)$

9. The value of $2w^2x^2y^2 - (-3w^2x^2y^2) - 9w^2x^2y^2 - (-w^2x^2y^2)$ is

- (i) 0 (ii) $(-4w^2x^2y^2)$ (iii) $(-3w^2x^2y^2)$ (iv) $(-2w^2x^2y^2)$ (v) $(-6w^2x^2y^2)$

10. The sum of the terms $8, (-8j), 5, (-7ik), (-6jk)$ is

- (i) $(-7ik-6jk-8j+13)$ (ii) $(-8ik-6jk-8j+13)$ (iii) $(-7ik-3jk-8j+13)$ (iv) $(-6ik-6jk-8j+13)$
(v) $(-7ik-8jk-8j+13)$

11. The value of $(-6xyz-3xz-2yz) + (7xy-9y-9z)$ is

- (i) $(-6xyz+7xy-3xz-2yz-9y-9z)$ (ii) $(-6xyz+4xy-3xz-2yz-9y-9z)$
(iii) $(-7xyz+7xy-3xz-2yz-9y-9z)$ (iv) $(-5xyz+7xy-3xz-2yz-9y-9z)$
(v) $(-6xyz+10xy-3xz-2yz-9y-9z)$

12. The value of $\frac{4}{5}op - \frac{1}{4}op - \frac{1}{4}op - \frac{2}{3}op$ is

- (i) $(-\frac{3}{10}op)$ (ii) $(-\frac{13}{30}op)$ (iii) $(-\frac{11}{32}op)$ (iv) $(-\frac{11}{30}op)$ (v) $(-\frac{11}{28}op)$

13. The sum of the expressions $(12r-8), (-11q-2), (-r+8), (6r+10), (5qr-4r)$ is

- (i) $(5qr-13q+13r+8)$ (ii) $(5qr-8q+13r+8)$ (iii) $(4qr-11q+13r+8)$ (iv) $(5qr-11q+13r+8)$
(v) $(6qr-11q+13r+8)$

14. The value of $\frac{1}{2}u^2 - \frac{3}{4}u^2 - \frac{1}{2}u^2$ is

- (i) $(-\frac{5}{4}u^2)$ (ii) $(-\frac{3}{4}u^2)$ (iii) $(-\frac{1}{2}u^2)$ (iv) $(-\frac{1}{4}u^2)$ (v) $(-\frac{3}{2}u^2)$

15. The value of $\frac{1}{3}j^4 + \frac{1}{2}j^4 + \frac{1}{4}j^4 + \frac{1}{2}j^4$ is

- (i) $\frac{7}{4}j^4$ (ii) $\frac{19}{12}j^4$ (iii) $\frac{17}{10}j^4$ (iv) $\frac{3}{2}j^4$ (v) $\frac{17}{12}j^4$

16. The value of $(-9h^2) + (-8h^2) + 8h^2$ is

- (i) $(-6h^2)$ (ii) $(-10h^2)$ (iii) $(-8h^2)$ (iv) $(-9h^2)$ (v) $(-11h^2)$

17. The value of $(-8xz) \times (-5yz) \times (-7y) \times (-5xyz)$ is

- (i) $1401x^2y^3z^3$ (ii) $1397x^2y^3z^3$ (iii) $1402x^2y^3z^3$ (iv) $1399x^2y^3z^3$ (v) $1400x^2y^3z^3$

18. The value of $\frac{2}{3}x^3y^3z^3 + \frac{1}{2}x^3y^3z^3 + \frac{2}{3}x^3y^3z^3 + \frac{1}{4}x^3y^3z^3$ is

- (i) $\frac{23}{12}x^3y^3z^3$ (ii) $\frac{29}{14}x^3y^3z^3$ (iii) $\frac{25}{12}x^3y^3z^3$ (iv) $\frac{21}{10}x^3y^3z^3$ (v) $\frac{9}{4}x^3y^3z^3$

19. The expanded form of $(x-9)(x+7)(x+8)(x+6)$ is

- (i) $(-2x^4+12x^3-43x^2-978x-3024)$ (ii) $(4x^4+12x^3-43x^2-978x-3024)$
(iii) $(12x^3-43x^2-978x-3024)$ (iv) $(x^4+12x^3-43x^2-978x-3024)$
(v) $(2x^4+12x^3-43x^2-978x-3024)$

20. The value of $(-3x) - (-9x)$ is

- (i) $6x$ (ii) $4x$ (iii) $9x$ (iv) $7x$ (v) $5x$

21. The value of $(-n^2) - (-9n^2) - (-4n^2)$ is

- (i) $12n^2$ (ii) $9n^2$ (iii) $13n^2$ (iv) $11n^2$ (v) $14n^2$

22. Which of the following terms is a like term of $8w^4$?

- (i) w^3 (ii) $9w^2$ (iii) 9 (iv) $(-5w^4)$ (v) w

23. The value of $\frac{1}{2} \times \frac{1}{4} uvw \times \frac{1}{2} w \times \frac{1}{4} uv$ is

- (i) $\frac{1}{66} u^2 v^2 w^2$ (ii) $\frac{3}{64} u^2 v^2 w^2$ (iii) $\frac{1}{62} u^2 v^2 w^2$ (iv) $(-\frac{1}{64} u^2 v^2 w^2)$ (v) $\frac{1}{64} u^2 v^2 w^2$

24. The value of $5xyz(x-5yz+5)$ is

- (i) $(5x^2yz - 28xy^2z^2 + 25xyz)$ (ii) $(5x^2yz - 25xy^2z^2 + 25xyz)$ (iii) $(4x^2yz - 25xy^2z^2 + 25xyz)$
(iv) $(5x^2yz - 23xy^2z^2 + 25xyz)$ (v) $(6x^2yz - 25xy^2z^2 + 25xyz)$

25. The sum of the terms $7, 5g, fg, 8fg, (-4f)$ is

- (i) $(9fg - 4f + 5g + 7)$ (ii) $(8fg - 4f + 5g + 7)$ (iii) $(9fg - 7f + 5g + 7)$ (iv) $(9fg - 2f + 5g + 7)$
(v) $(10fg - 4f + 5g + 7)$

Assignment Key

1) (ii)	2) (iv)	3) (iv)	4) (i)	5) (iv)	6) (ii)
7) (v)	8) (v)	9) (iii)	10) (i)	11) (i)	12) (iv)
13) (iv)	14) (ii)	15) (ii)	16) (iv)	17) (v)	18) (iii)
19) (iv)	20) (i)	21) (i)	22) (iv)	23) (v)	24) (ii)
25) (i)					