EduSahara™ Assignment

Name : Polynomial Power Expansion

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

1. The expanded form of $(-2v)^3$ is

(i) $(-2v)\times(-2v)\times(-2v)\times(-2v)$ (ii) $(-2v)$ (iii) $(-2v)\times(-2v)$

(iv) $(-2v)\times(-2v)\times(-2v)\times(-2v)\times(-2v)$ (v) $(-2v)\times(-2v)\times(-2v)$

2. The expanded form of $(\frac{1}{2}u)^3$ is

(i) $\frac{1}{2}u\times\frac{1}{2}u$ (ii) $\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u$ (iii) $\frac{1}{2}u$ (iv) $\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u$ (v) $\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u\times\frac{1}{2}u$

3. The expanded form of $(2no)^3$ is

(i) $2no\times2no$ (ii) $2no\times2no\times2no\times2no$ (iii) $2no\times2no\times2no$ (iv) $2no\times2no\times2no\times2no\times2no$ (v) $2no$

4. The expanded form of $(\frac{3}{5}op)^3$ is

(i) $\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op$ (ii) $\frac{3}{5}op$ (iii) $\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op$ (iv) $\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op\times\frac{3}{5}op$ (v) $\frac{3}{5}op\times\frac{3}{5}op$

5. The expanded form of $(-5j-3)^3$ is

(i) $(-5j-3)\times(-5j-3)\times(-5j-3)\times(-5j-3)\times(-5j-3)$ (ii) $(-5j-3)\times(-5j-3)\times(-5j-3)$

(iii) $(-5j-3)\times(-5j-3)\times(-5j-3)\times(-5j-3)$ (iv) $(-5j-3)\times(-5j-3)$ (v) $(-5j-3)$

6. The expanded form of $(\frac{1}{2}ij+\frac{1}{4})^3$ is

(i) $(\frac{1}{2}ij+\frac{1}{4})$ (ii) $(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})$ (iii) $(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})$

(iv) $(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})$ (v) $(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})\times(\frac{1}{2}ij+\frac{1}{4})$

7. The expanded form of $(-4x)^3$ is

(i) $(-4x)\times(-4x)\times(-4x)\times(-4x)\times(-4x)$ (ii) $(-4x)\times(-4x)\times(-4x)$ (iii) $(-4x)\times(-4x)$ (iv) $(-4x)$

(v) $(-4x)\times(-4x)\times(-4x)\times(-4x)$

8. The expanded form of $(\frac{1}{2}h)^3$ is

(i) $\frac{1}{2}h\times\frac{1}{2}h$ (ii) $\frac{1}{2}h$ (iii) $\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h$ (iv) $\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h$ (v) $\frac{1}{2}h\times\frac{1}{2}h\times\frac{1}{2}h$

9. The expanded form of $(-5fg)^3$ is

(i) $(-5fg)\times(-5fg)\times(-5fg)$ (ii) $(-5fg)\times(-5fg)\times(-5fg)\times(-5fg)\times(-5fg)$

(iii) $(-5fg)\times(-5fg)\times(-5fg)\times(-5fg)$ (iv) $(-5fg)\times(-5fg)$ (v) $(-5fg)$

10. The expanded form of $(\frac{1}{2}ab)^3$ is

(i) $\frac{1}{2}ab$ (ii) $\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab$ (iii) $\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab$ (iv) $\frac{1}{2}ab\times\frac{1}{2}ab\times\frac{1}{2}ab$

(v) $\frac{1}{2}ab\times\frac{1}{2}ab$

11. The expanded form of $(2n-2)^3$ is

(i) $(2n-2)\times(2n-2)$ (ii) $(2n-2)\times(2n-2)\times(2n-2)$ (iii) $(2n-2)\times(2n-2)\times(2n-2)\times(2n-2)$

(iv) $(2n-2)\times(2n-2)\times(2n-2)\times(2n-2)\times(2n-2)$ (v) $(2n-2)$

12. The expanded form of $(\frac{3}{5}ab+\frac{3}{4}a)^3$ is

(i) $(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)$ (ii) $(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)$ (iii) $(\frac{3}{5}ab+\frac{3}{4}a)$

(iv) $(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)$

(v) $(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)\times(\frac{3}{5}ab+\frac{3}{4}a)$

Assignment Key

1) (v)	2) (ii)	3) (iii)	4) (i)	5) (ii)	6) (iii)
7) (ii)	8) (v)	9) (i)	10) (iv)	11) (ii)	12) (ii)