EduSahara™ Assignment

Name : Polynomial Power Expansion

Chapter : Polynomials and Factorisation

Grade : SSC Grade IX

License : Non Commercial Use

1. The expanded form of $(5c)^3$ is

(i) $5c\times5c\times5c\times5c$ (ii) $5c$ (iii) $5c\times5c\times5c\times5c\times5c$ (iv) $5c\times5c$ (v) $5c\times5c\times5c$

2. The expanded form of $(\frac{1}{5}j)^3$ is

(i) $\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j$ (ii) $\frac{1}{5}j$ (iii) $\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j$ (iv) $\frac{1}{5}j\times\frac{1}{5}j\times\frac{1}{5}j$ (v) $\frac{1}{5}j\times\frac{1}{5}j$

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

(i) $(-uv)\times(-uv)\times(-uv)\times(-uv)$ (ii) $(-uv)\times(-uv)\times(-uv)$ (iii) $(-uv)$ (iv) $(-uv)\times(-uv)$

(v) $(-uv)\times(-uv)\times(-uv)\times(-uv)\times(-uv)$

4. The expanded form of $(\frac{2}{5}st)^3$ is

(i) $\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st$ (ii) $\frac{2}{5}st$ (iii) $\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st$ (iv) $\frac{2}{5}st\times\frac{2}{5}st$ (v) $\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st\times\frac{2}{5}st$

5. The expanded form of $(5c+4)^3$ is

(i) $(5c+4)\times(5c+4)\times(5c+4)\times(5c+4)\times(5c+4)$ (ii) $(5c+4)\times(5c+4)\times(5c+4)\times(5c+4)$ (iii) $(5c+4)$

(iv) $(5c+4)\times(5c+4)$ (v) $(5c+4)\times(5c+4)\times(5c+4)$

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

(i) $(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})$ (ii) $(f+\frac{3}{4})$ (iii) $(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})$ (iv) $(f+\frac{3}{4})\times(f+\frac{3}{4})$

(v) $(f+\frac{3}{4})\times(f+\frac{3}{4})\times(f+\frac{3}{4})$

7. The expanded form of $(5v)^3$ is

(i) $5v\times5v\times5v$ (ii) $5v$ (iii) $5v\times5v$ (iv) $5v\times5v\times5v\times5v$ (v) $5v\times5v\times5v\times5v\times5v$

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

(i) $\frac{2}{3}a\times\frac{2}{3}a$ (ii) $\frac{2}{3}a$ (iii) $\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a$ (iv) $\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a$ (v) $\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a\times\frac{2}{3}a$

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

(i) $(-5uv)\times(-5uv)$ (ii) $(-5uv)$ (iii) $(-5uv)\times(-5uv)\times(-5uv)$

(iv) $(-5uv)\times(-5uv)\times(-5uv)\times(-5uv)\times(-5uv)$ (v) $(-5uv)\times(-5uv)\times(-5uv)\times(-5uv)$

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

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

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

11. The expanded form of $(k+2)^3$ is

(i) $(k+2)\times(k+2)$ (ii) $(k+2)\times(k+2)\times(k+2)\times(k+2)$ (iii) $(k+2)\times(k+2)\times(k+2)\times(k+2)\times(k+2)$

(iv) $(k+2)$ (v) $(k+2)\times(k+2)\times(k+2)$

12. The expanded form of $(\frac{1}{2}op+\frac{2}{5}p)^3$ is

(i) $(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)$ (ii) $(\frac{1}{2}op+\frac{2}{5}p)$

(iii) $(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)$ (iv) $(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)$

(v) $(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)\times(\frac{1}{2}op+\frac{2}{5}p)$

Assignment Key

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

Copyright © Small Systems Computing Pvt. Ltd.