

Algebra

G.C.D and L.C.M of Polynomials

- Greatest Common Divisor (GCD)
- Highest Common Factor (HCF)

I. Find the G.C.D of the following:

1. $4ab^2, 2a^2b$

Solution:

$$\begin{array}{r|l} 2 & 4, 2 \\ \hline & 2, 1 \end{array}$$

$$\text{G.C.D} = 2ab$$

2. $6xy^2z, 8x^2y^3z^2$

Solution:

$$\begin{array}{r|l} 2 & 6, 8 \\ \hline & 3, 4 \end{array}$$

$$\text{G.C.D} = 2xy^2z$$

3. $5a^3b^3, 15ab^2c$

Solution:

$$\begin{array}{r|l} 5 & 5, 15 \\ \hline & 1, 3 \end{array}$$

$$\text{G.C.D} = 5ab$$

4. $49ax^2, 63ay^2, 56az^2$

Solution:

$$\begin{array}{r|l} 7 & 49, 63, 56 \\ \hline & 7, 9, 8 \end{array}$$

$$\text{G.C.D} = 7a$$

5. $8a^2x, 6abxy, 10abx^3y^2$

Solution:

$$\begin{array}{r|l} 2 & 8, 6, 10 \\ \hline & 4, 3, 5 \end{array}$$

$$\text{G.C.D} = 2ax$$

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Page 1 of 5