

- 1) Determine the values of t and u , if the polynomials $2x^2 + 3x + 1$ and $2x^3 + 5x^2 + 4x + 1$ have $(x + t)(ux + 1)$ as their GCF.
- 2) For what values of b and d , the polynomials $8x^2 + bx + 15$ and $12x^2 + 21x + d$ have $4x + 3$ as their GCF?

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- 3) Find the values of m and n , if $(3x^2 + 17x + 10)(nx^2 + mx + 10)$ and $(3x^2 + 17x + 10)(nx^2 + mx + 10)$ are identical.
- 4) If $(x - 6)(x - 8)$ is the GCF of $(x^2 - 10x + 24)(x^2 + wx + 16)$, determine the value of w .
- 5) The GCF of polynomials $x^3 - 5x^2 + px - 4$ and $x^3 - 9x^2 + sx - 16$ is $x - 1$. Find the values of p and s .