

- 1) Find the values of g and h , if the GCF of polynomials $(x^2 - x + g)(x^2 - 7x + 12)$ and $(x^2 + 8x + 7)(x^2 - 8x - h)$ is $(x + 7)(x - 4)$.
- 2) If $(mx + 3)(3x + n)$ is the GCF of polynomials $(14x^2 + 25x + 6)(15x^2 + 13x + 2)$ and $(9x^2 - 4)(4x^2 - 9)$, determine the values of m and n .

PREVIEW

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- 3) The GCF of polynomials $(2x + 3)(3x + 8)$ and $(x^2 + vx + 15)$ is $(x + 7)(x - 4)$. Find the value of v .

- 4) Determine the value of k if the polynomials $(x^2 + kx - 6)$ and $(x^2 - 5x + 6)$ have $3x - 2$ as their GCF.

- 5) For what values of a and c , the polynomials $x^3 - x^2 + 25x - 25$ and $(x - 1)(x^2 - x - 30)$ have $(x + a)(x - c)$ as their GCF?