

Name : _____

Unknown Variables

Sheet 1

1) For what values of u and v , the polynomials $(x^2 + 3x + 2)(x^2 + 2x + u)$ and $(x^2 + 7x + 12)(x^2 + 7x + v)$ have $x^2 + 4x + 3$ as their GCF?

2) The GCF of polynomials $x^3 - x^2 - 4x + 4$ and $x^3 - 2x^2 - x + 2$ is $(x - a)(x - b)$. Find the values of a and b .

3) If $x + 5$ is the GCF of $(x^2 + 5x + c)(x^2 + 7x + 12)$ and $(x^2 + 7x + 12)(x^2 + 7x + v)$, find the values of p and q .

4) Find the values of c and d , if the GCF of $(x^2 - 4)(dx^2 + 7x + 12)$ and $(x^2 + 5x + 6)(x^2 + 7x + 12)$ is $(x + 2)(x - 6)$ and $(x + 2)(x - 6)$.

5) Determine the values of t and s , if the polynomials $tx^2 - 8x$ and $14x^2 - sx$ have $2(x - 2)$ as their GCF.

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