Name : _____

Unknown Variables

Sheet 5

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?

3) Find the values of m $(3x^2 + 17x + 10)(nx^2$ - mx + 10) and

4) If $(x - 6)(x - 8)$ is the determine the value - 10x + 24)$(x^2 + wx + 16)$,

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.