Name : _____

Unknown Variables

Sheet 3

1) If $2x + 1$ is the GCF of polynomials $2x^2 + ax + 2$ and $6x^2 + 5x + d$, determine the values of a and d.

2) Determine the values of v and w, if the polynomials $(vx^2 + 6x - 27)(x^2 + 10x + 21)$ and $(wx^2 + 15x + 7)(x^2 - 4x + 3)$ have $x^2 + 4x - 21$ as their GCF.

3) For what values of k - h)$(x^2 - 4)$ have $(kx - 3)(x + 2)$ as the

4) The GCF of polynor + 17x + c) is $(x + 10)(3x + 5)$. Finc

5) Find the values of m and n, if the GCF of polynomials $(x^3 + 6x^2 - 9x - 54)(5x^2 - 7x - m)$ and $(5x^2 + 18x + 9)(x^3 - 3x^2 - nx + 48)$ is $5x^3 + 3x^2 - 45x - 27$.