Unknown Variables

Sheet 2

1) The GCF of polynomials $(x^2 - 3x - a)(x^2 - 6x + 8)$ and $(x^2 - 3x - 4)(x^2 - 1)$ is (x - 4)(x + b). Find the values of a and b.

2) Find the values of r and s, if the GCF of polynomials $rx^4 - 15x^3 + x^2 - 3x$ and $x^3 - 3x^2 + x - s$ is x - 3.



3) Determine the value $(3x^2 - ux - 10)(2x^2 - ux)$

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+ 4) and

4) For what values of n

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5 have 2x – 5 as their GCF?

5) If $2x^2 - x - 6$ is the GCF of polynomials $(10x^2 + px - 3)(4x^2 - 9x + 2)$ and $(x^2 - 6x + 8)(2x^2 + 9x + q)$, determine the values of p and q.