

Name : _____

Unknowns

Sheet 1

1) If $(2x^6 + u)(x^6 - v) = 2x^{12} - 11x^6 - 90$, find the values of u and v .

2) If $(-8x^3 + rx)(-s - 6x - 8x^3) = t^2x^6 - 4x^4 - 24x^3$, what are the values of r , s and t ?

3) If $mx^4(x^3 + n)$ the value of n is $2x^3 - 3x^2 + 4x - 5$ and $(x^3 + n)mx^4$, determine the value of m .

4) Find the value of k if $(x^2 + k)(x^2 + 3x + 2) = x^4 + 7x^3 + 10x^2 + 6x + 2$.

5) If $(x^7 + x^6 + k)(g + x^7) = x^{14} + x^{13} + khx^7 + 2kx^6 + 8$, find the values of g , h and k .

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