

Name : _____

GCF & LCM - Polynomials

Sheet 2

1) The LCM and GCF of $r(a)$ and $s(a)$ are $a^5 + 4a^4 + 7a^3 + 16a^2 + 12a$ and $a^2 + 4$ respectively. If $r(a)$ is $a^3 + 3a^2 + 4a + 12$, find $s(a)$.

2) The GCF and LCM of $b(x)$ and $a(x)$ are $x^2 - 8x + 16$ and $x^4 - 6x^3 + 32x$ respectively. If $a(x)$ is $x^3 - 6x^2 + 32$, determine $b(x)$.

3) The LCM and GCF of two polynomials is $k^4 - 8k^2$.

4) The GCF and LCM of two polynomials is $2x^2 - 8x + 8$. Determine the other polynomial, if one of the polynomials is $x^2 - 4x + 4$.

5) The LCM and GCF of two polynomials are $w^3 + 2w^2 - 43w + 40$ and $w + 8$ respectively. Find the other polynomial, if one of the polynomials is $w^2 + 3w - 40$.

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