Name : _____

GCF & LCM - Polynomials

Sheet 4

1) The LCM and GCF of two polynomials are $7y^8 + 22y^7 + 3y^6$ and $y^2 + 3y$ respectively. Determine the other polynomial, if one of the polynomials is $y^7 + 3y^6$.

2) The GCF and LCM of two polynomials are 1 and $s^4 + s^3 - 16s^2 - 4s + 48$ respectively. If one of the polynomials is $s^2 - s - 6$, find the other polynomial.

3) The LCM and GCF of ... rmine r(x), if s(x) is $x^4 + x^3$.

4) The GCF and LCM of ... 6 respectively. Find the other polynomial, if ...

5) The GCF and LCM of g(a) and f(a) are $3a - 2$ and $6a^2 + 56a - 40$ respectively. Determine f(a), if g(a) is $3a^2 + 28a - 20$.

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Answer key

GCF & LCM - Polynomials

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1) The LCM and GCF of two polynomials are $7y^8 + 22y^7 + 3y^6$ and $y^2 + 3y$ respectively. Determine the other polynomial, if one of the polynomials is $y^7 + 3y^6$.

$7y^3 + 22y^2 + 3y$

2) The GCF and LCM of two polynomials are 1 and $s^4 + s^3 - 16s^2 - 4s + 48$ respectively. If one of the polynomials is $s^2 - s - 6$, find the other polynomial.

$s^2 + 2s - 8$

3) The LCM and GCF of ... rmine r(x), if s(x) is $x^4 + x^3$.

$x^5 + 7x^4$

4) The GCF and LCM of ... 6 respectively. Find the other polynomial, if ...

$4u^3 - 4u^2 - 16u + 16$

5) The GCF and LCM of g(a) and f(a) are $3a - 2$ and $6a^2 + 56a - 40$ respectively. Determine f(a), if g(a) is $3a^2 + 28a - 20$.

$6a - 4$