

Name : _____

GCF & LCM - Polynomials

Sheet 1

- 1) The GCF and LCM of two polynomials are $m - 7$ and $m^3 - 10m^2 + 11m + 70$ respectively. If one of the polynomials is $m^2 - 5m - 14$, find the other polynomial.
- 2) The LCM and GCF of two polynomials are $10q^4 + 5q^3 + 8q^2 + 4q$ and $5q^2 + 4$ respectively. Determine the other polynomial, if one of the polynomials is $5q^3 + 4q$.

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- 3) The GCF and LCM of $2a^2 + 10a$, find $q(a)$.

- 4) The LCM and GCF of $x^4 - 3x^3 + 3x^2 - x$, determine $f(x)$, if $g(x)$ is

- 5) The GCF and LCM of two polynomials are $b^3 - 6b^2 + b - 6$ and $b^5 - b^4 - 35b^3 + 35b^2 - 36b + 36$ respectively. Find the other polynomial, if one of the polynomials is $b^4 - 7b^3 + 7b^2 - 7b + 6$.

GCF & LCM - Polynomials

- 1) The GCF and LCM of two polynomials are $m - 7$ and $m^3 - 10m^2 + 11m + 70$ respectively. If one of the polynomials is $m^2 - 5m - 14$, find the other polynomial.

$$m^2 - 12m + 35$$

- 2) The LCM and GCF of two polynomials are $10q^4 + 5q^3 + 8q^2 + 4q$ and $5q^2 + 4$ respectively. Determine the other polynomial, if one of the polynomials is $5q^3 + 4q$.

$$10q^3 + 5q^2 + 8q + 4$$

- 3) The GCF and LCM of

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$2a^2 + 10a$, find $q(a)$.

$$a - 5$$

- 4) The LCM and GCF of $x^4 - 3x^3 + 3x^2 - x$.

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determine $f(x)$, if $g(x)$ is

$$x^2 + x$$

- 5) The GCF and LCM of two polynomials are $b^3 - 6b^2 + b - 6$ and $b^5 - b^4 - 35b^3 + 35b^2 - 36b + 36$ respectively. Find the other polynomial, if one of the polynomials is $b^4 - 7b^3 + 7b^2 - 7b + 6$.

$$b^4 - 35b^2 - 36$$