

Name : _____

GCF & LCM - Polynomials

Sheet 3

1) The GCF and LCM of two polynomials are $h + 10$ and $h^3 + 11h^2 + 8h - 20$ respectively. If one of the polynomials is $h^2 + 9h - 10$, find the other polynomial.

2) The GCF and LCM of $g(a)$ and $h(a)$ are $a^2 - 3$ and $a^6 - 2a^4 - 5a^2 + 6$ respectively. Find $h(a)$, if $g(a)$ is $a^4 - 4a^2 + 3$.

3) The LCM and GCF of two polynomials are $3d^4 - 12d^2$, find the other polynomial.

4) The LCM and GCF of two polynomials are $2x^2 - 10x - 28$, determine the other polynomial.

5) The LCM and GCF of two polynomials are $p^3 + p^2 - 36p - 36$ and $p - 6$ respectively. Determine the other polynomial, if one of the polynomials is $p^2 - 5p - 6$.

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y. If one of the polynomials

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Answer key

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Sheet 3

- 1) The GCF and LCM of two polynomials are $h + 10$ and $h^3 + 11h^2 + 8h - 20$ respectively. If one of the polynomials is $h^2 + 9h - 10$, find the other polynomial.

$$h^2 + 12h + 20$$

- 2) The GCF and LCM of $g(a)$ and $h(a)$ are $a^2 - 3$ and $a^6 - 2a^4 - 5a^2 + 6$ respectively. Find $h(a)$, if $g(a)$ is $a^4 - 4a^2 + 3$.

$$a^4 - a^2 - 6$$

- 3) The LCM and GCF of two polynomials is $3d^4 - 12d^2$, find the other polynomial.

$$2d^2 - 4d$$

- 4) The LCM and GCF of two polynomials are $2x^2 - 10x - 28$, determine the other polynomial.

$$2x^2 - 8x + 8$$

- 5) The LCM and GCF of two polynomials are $p^3 + p^2 - 36p - 36$ and $p - 6$ respectively. Determine the other polynomial, if one of the polynomials is $p^2 - 5p - 6$.

$$p^2 - 36$$

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