

Name : _____

GCF & LCM - Polynomials

Sheet 5

1) The GCF and LCM of two polynomials are 1 and $8c^3 + 14c^2 + 3c$ respectively. Determine the other polynomial, if one of the polynomials is $2c^2 + 3c$.

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

3) The LCM and GCF of

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and $r(a)$, if $q(a)$ is $a^3 - 49a$.

4) The LCM and GCF of
Determine the other

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$6z + 8$ respectively.
8.

5) The GCF and LCM of $s(x)$ and $t(x)$ are $x + 9$ and $x^3 + 9x^2 - x - 9$ respectively. Find $s(x)$, if $t(x)$ is $x^2 + 8x - 9$.

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Answer key

GCF & LCM - Polynomials

Sheet 5

- 1) The GCF and LCM of two polynomials are 1 and $8c^3 + 14c^2 + 3c$ respectively. Determine the other polynomial, if one of the polynomials is $2c^2 + 3c$.

$$4c + 1$$

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

$$n^2 - 2n - 8$$

- 3) The LCM and GCF of

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and $r(a)$, if $q(a)$ is $a^3 - 49a$.

$$2a^3 - 98a$$

- 4) The LCM and GCF of Determine the other

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$6z + 8$ respectively.
8.

$$z^3 - 3z^2 - 10z + 24$$

- 5) The GCF and LCM of $s(x)$ and $t(x)$ are $x + 9$ and $x^3 + 9x^2 - x - 9$ respectively. Find $s(x)$, if $t(x)$ is $x^2 + 8x - 9$.

$$x^2 + 10x + 9$$