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

4) The LCM and GCF of 6z + 8 respectively. Determine the other 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

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

$2a^3 - 98a$

4) The LCM and GCF of 6z + 8 respectively. Determine the other 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 $x^2 + 8x - 9$.

$x^2 + 10x + 9$