

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  $x^2 + 8x - 9$ .