

Name : \_\_\_\_\_

## GCF & LCM - Polynomials

Sheet 4

1) The LCM and GCF of two polynomials are  $7y^8 + 22y^7 + 3y^6$  and  $y^2 + 3y$  respectively. Determine the other polynomial, if one of the polynomials is  $y^7 + 3y^6$ .

2) The GCF and LCM of two polynomials are 1 and  $s^4 + s^3 - 16s^2 - 4s + 48$  respectively. If one of the polynomials is  $s^2 - s - 6$ , find the other polynomial.

3) The LCM and GCF of

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determine  $r(x)$ , if  $s(x)$  is  $x^4 + x^3$ .

4) The GCF and LCM of  
other polynomial, if c

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6 respectively. Find the

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5) The GCF and LCM of  $g(a)$  and  $f(a)$  are  $3a - 2$  and  $6a^2 + 56a - 40$  respectively. Determine  $f(a)$ , if  $g(a)$  is  $3a^2 + 28a - 20$ .

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## Answer key

### GCF & LCM - Polynomials

Sheet 4

- 1) The LCM and GCF of two polynomials are  $7y^8 + 22y^7 + 3y^6$  and  $y^2 + 3y$  respectively. Determine the other polynomial, if one of the polynomials is  $y^7 + 3y^6$ .

$$7y^3 + 22y^2 + 3y$$

- 2) The GCF and LCM of two polynomials are 1 and  $s^4 + s^3 - 16s^2 - 4s + 48$  respectively. If one of the polynomials is  $s^2 - s - 6$ , find the other polynomial.

$$s^2 + 2s - 8$$

- 3) The LCM and GCF of two polynomials are  $x^5 + 7x^4$  and  $x^4 + x^3$  respectively. Determine  $r(x)$ , if  $s(x)$  is  $x^4 + x^3$ .

$$x^5 + 7x^4$$

- 4) The GCF and LCM of two polynomials are  $4u^3 - 4u^2 - 16u + 16$  and  $6u^2 - 12u + 6$  respectively. Find the other polynomial, if one of the polynomials is  $4u^3 - 4u^2 - 16u + 16$ .

$$4u^3 - 4u^2 - 16u + 16$$

- 5) The GCF and LCM of  $g(a)$  and  $f(a)$  are  $3a - 2$  and  $6a^2 + 56a - 40$  respectively. Determine  $f(a)$ , if  $g(a)$  is  $3a^2 + 28a - 20$ .

$$6a - 4$$

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