

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

## LCM - Polynomials

L1S5

Find the least common multiple.

1)  $m^3n(-8m - 3)^6, m^5n(-8m - 3)^3$

2)  $q^5r^7s(q + 6)^8, q^9r^3s^5$

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

3)  $x(4x + 7y), y(xy + 9x - 1)$

4)  $2x^2(x^3 + 1), 5x^2 - 6uv^3$

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

5)  $14(-h^2 - 8)^2, 7(-h^2 - 8)$

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6)  $(-2w^5 + 6)^6, 4w$

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

7)  $24cd^7(d^2 - c)^2, 4c^4d$

8)  $5(-t^2 + 2)^8$

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

9)  $9z^8(z^3 + z + 6)^5, 5z^2(z^3 + z + 6)^5$

10)  $(a - 4)(8b^2 - 14)^4, (8b^2 - 14)^3(a - 4)^4$

LCM = \_\_\_\_\_

LCM = \_\_\_\_\_

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## Answer key

### LCM - Polynomials

L1S5

Find the least common multiple.

1)  $m^3n(-8m - 3)^6, m^5n(-8m - 3)^3$

2)  $q^5r^7s(q + 6)^8, q^9r^3s^5$

LCM =  $m^5n(-8m - 3)^6$

LCM =  $q^9r^7s^5(q + 6)^8$

3)  $x(4x + 7y), y(xy + 9x - 5y)$

4)  $2v^2(2u^3 + uv - 5v), 6uv^3$

LCM =  $xy(4x + 7y)(xy + 9x - 5y)$

LCM =  $v^7(2u^3 + uv - 5v)$

5)  $14(-h^2 - 8)^2, 7(-h^2 - 8)^3$

6)  $(-2w^5 + 6)^6, 4w^8$

LCM =  $4(-h^2 - 8)^3$

LCM =  $16w^8(-2w^5 + 6)^6$

7)  $24cd^7(d^2 - c)^2, 4c^4d$

8)  $6t^5(-t^2 + 2)^8$

LCM =  $24c^4d^7(d^2 - c)^2$

LCM =  $60t^5(-t^2 + 2)^8$

9)  $9z^8(z^3 + z + 6)^5, 5z^2(z^3 + z + 6)^5$

10)  $(a - 4)(8b^2 - 14)^4, (8b^2 - 14)^3(a - 4)^4$

LCM =  $45z^8(z^3 + z + 6)^5$

LCM =  $(a - 4)^4(8b^2 - 14)^4$

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