

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

## LCM - Polynomials

L2S1

Find the least common multiple.

1)  $12r, p^2r^4 + pqr^4 + q^2r^4, 4p^3 - 4q^3$

2)  $(-2d + c)^4, c^2 - 4cd + 4d^2$

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

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

3)  $15s, 5s^7 + 20s^6$

4)  $2x^2 - 9, 6x^2 - 9, 10x^6u - 6t^5u - 9t^4u$

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

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

5)  $g^3h^3 + g^2h^4, g^2 - h^2, (g^2 - h^2)^2$

6)  $1k^5$

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

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

7)  $32a^3b^7, 8a^8 + 24a^5b^2$

8)  $(-4)^2$

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

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

9)  $2w^5 - 24w^4 + 72w^3, 4w^4 - 22w^3 - 12w^2$

10)  $m^2 - mn + n^2, m^3 + n^3$

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## Answer key

### LCM - Polynomials

L2S1

Find the least common multiple.

1)  $12r, p^2r^4 + pqr^4 + q^2r^4, 4p^3 - 4q^3$

2)  $(-2d + c)^4, c^2 - 4cd + 4d^2$

LCM =  $\underline{12r^4(p - q)(p^2 + pq + q^2)}$

LCM =  $\underline{(c - 2d)^4}$

3)  $15s, 5s^7 + 20s^6$

4)  $2x^2 - 9, 4x^2 - 9, 10x^6u - 6t^5u - 9t^4u$

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

LCM =  $\underline{(8t + 3)(8t - 3)(2t - 1)}$

5)  $g^3h^3 + g^2h^4, g^2 - h^2, (g + h)^2$

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LCM =  $\underline{1k^5}$

LCM =  $\underline{g^2h^3}$

LCM =  $\underline{(k + 3)^2(k^2 - 3k + 9)}$

7)  $32a^3b^7, 8a^8 + 24a^5b^2$

LCM =  $\underline{-4)^2}$

LCM =  $\underline{32a^5b^7(zab + a + 3b)}$

LCM =  $\underline{zu(xy - 2)^2(xy + 2)^2}$

9)  $2w^5 - 24w^4 + 72w^3, 4w^4 - 22w^3 - 12w^2$

10)  $m^2 - mn + n^2, m^3 + n^3$

LCM =  $\underline{2w^3(w - 6)^2(2w + 1)}$

LCM =  $\underline{(m + n)(m^2 - mn + n^2)}$

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