

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

## LCM - Polynomials

L2S2

Find the least common multiple.

1)  $36k^3, 4k^7 + 72k^6 + 60k^5$

2)  $8u^5 + 27u^2v^3, 2u^6 + 3u^5v$

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

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

3)  $x(z-3) + y(z-3), z^2 - 6z + 9, x^2 - y^2$

4)  $(4x + 14y + \dots)^2 + 4w - 21$

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

\_\_\_\_\_

5)  $rst^8, (r^4s^2t + r^3s^2)^2$

$m^2 + 8m + 16, n^2 - 9n + 14$

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

\_\_\_\_\_

7)  $(3d + 2)^4, 3d^2 + 20d + 11$

$b^3c^3$

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

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

9)  $(g + h)(g^2 - 2gh + h^2), (g - h)(g^2 + 2gh + h^2)$

10)  $22a^4, 10a^3 + 18a^2, 5a^2 + 14a + 9$

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

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

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## Answer key

### LCM - Polynomials

L2S2

Find the least common multiple.

1)  $36k^3, 4k^7 + 72k^6 + 60k^5$

2)  $8u^5 + 27u^2v^3, 2u^6 + 3u^5v$

LCM =  $36k^5(k^2 + 18k + 15)$

LCM =  $u^5(2u + 3v)(4u^2 - 6uv + 9v^2)$

3)  $x(z - 3) + y(z - 3), z^2 - 6z + 9, x^2 - 2$

4)  $(4w + 14w^2 + 23w^3 + w^4) + 4w - 21$

LCM =  $(z - 3)$

$(w + 7)^6(w - 3)$

5)  $rst^8, (r^4s^2t + r^3s^2)^2$

$m^2 + 8m + 16, n^2 - 9n + 14$

LCM =  $r^6$

$7^4(m + 4)^3(n - 2)$

7)  $(3d + 2)^4, 3d^2 + 20d + 3$

$b^3c^3$

LCM =  $(3d + 2)(a + b)$

LCM =  $d(d - c)(b^2 + bc + c^2)$

9)  $(g + h)(g^2 - 2gh + h^2), (g - h)(g^2 + 2gh + h^2)$

10)  $22a^4, 10a^3 + 18a^2, 5a^2 + 14a + 9$

LCM =  $(g - h)^2(g + h)^2$

LCM =  $22a^4(5a + 9)(a + 1)$

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