

Name : _____

LCM - Polynomials

L2S3

Find the least common multiple.

1) $b(d - 1) + c(d - 1), d^2 - 2d + 1$

2) $m^2 - 3m + 9, (m^3 + 27)^3, 2m^5 + 54m^2$

LCM = _____

LCM = _____

3) $11u^7v^4, 8u^5v^5 - 4u^4v^6, 22u^3v^5$

4) $15x^2y^3 - 20x^3y^5, 15xy^8$

LCM = _____

LCM = _____

5) $(h^2 + 5)^5, (6h^5 + 30h^3)$

$2w^2 + 13w + 20$

LCM = _____

LCM = _____

7) $(p - q)(p^2 + pq + q^2),$

$t^2 - 29t - 10, 3t^2 - 20t - 7$

LCM = _____

LCM = _____

9) $k^9, k^2 - 64, k^2 - 16k + 64$

10) $y^2z^2 - 81, (yz - 9)(y^2z^2 + 18yz + 81)$

LCM = _____

LCM = _____

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Name : _____

Answer key

LCM - Polynomials

L2S3

Find the least common multiple.

1) $b(d - 1) + c(d - 1), d^2 - 2d + 1$

2) $m^2 - 3m + 9, (m^3 + 27)^3, 2m^5 + 54m^2$

LCM = $(d - 1)^2(b + c)$

LCM = $2m^2(m + 3)^3(m^2 - 3m + 9)^3$

3) $11u^7v^4, 8u^5v^5 - 4u^4v^6, 22u^3v^5$

4) $15r^2s^3, 20r^3s^5, 15r^5s^8$

LCM = $44u^7v^6$

LCM = $5r^2s^5(4r^2 + 3s^3)$

5) $(h^2 + 5)^5, (6h^5 + 30h^3)$

6) $2w^2 + 13w + 20$

LCM = $6(h^2 + 5)^5(6h^5 + 30h^3)$

LCM = $(w + 4)^2(2w + 5)$

7) $(p - q)(p^2 + pq + q^2),$

8) $t^2 - 29t - 10, 3t^2 - 20t - 7$

LCM = $p^7q^5(p - q)(p^2 + pq + q^2)$

LCM = $(t - 10)^4(3t + 1)(t - 7)$

9) $k^9, k^2 - 64, k^2 - 16k + 64$

10) $y^2z^2 - 81, (yz - 9)(y^2z^2 + 18yz + 81)$

LCM = $k^9(k - 8)^2(k + 8)$

LCM = $(yz + 9)^2(yz - 9)$

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