

Name : _____

LCM - Polynomials

L2S4

Find the least common multiple.

1) $p^3q^4, p^6 - 100p^4, 5p^2q^2 + 52pq^2 + 20q^2$

2) $(g - 6)^2, g^2 - 9g + 18, 2g^2 - 13g + 6$

LCM = _____

LCM = _____

3) $(a^8 - 64a^4)^2, (a^2 + 8)(a^2 - 8)$

4) $(n + 1)^4(7 + n), n^2 + 14n + 49, n^2 - 1$

LCM = _____

5) $(x^2 - xy + y^2)^3, x^2 + y^2$

LCM = _____

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

$c^5d^3 + 32c^4d^2$

LCM = _____

LCM = _____

9) $3rs^4 - 12s^3r + 9s^2r, r^3s^3 - 9r^3s$

10) $8t^3 + u^3, (2t + u)^2, 4t^2 - 2tu + u^2$

LCM = _____

LCM = _____

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Answer key

LCM - Polynomials

L2S4

Find the least common multiple.

1) $p^3q^4, p^6 - 100p^4, 5p^2q^2 + 52pq^2 + 20q^2$

2) $(g - 6)^2, g^2 - 9g + 18, 2g^2 - 13g + 6$

LCM = $\underline{p^4q^4(p + 10)(p - 10)(5p + 2)}$

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

3) $(a^8 - 64a^4)^2, (a^2 + 8)(a^2 - 8)$

4) $(n + 1)^4(7 + n), n^2 + 14n + 49, n^2 - 1$

LCM = $\underline{a^8(a^2 - 8)^2(a^2 + 8)}$

LCM = $\underline{(n + 1)^4(n + 7)^2(n - 1)}$

5) $(x^2 - xy + y^2)^3, x^2 + y^2$

LCM = $\underline{x^4(x^2 - xy + y^2)^3}$

LCM = $\underline{10k^9(k + 5)}$

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

LCM = $\underline{16m^8(m - 27)(m + 5)}$

LCM = $\underline{44c^5d^7(5d^2 + 3c^2d + 4c)}$

9) $3rs^4 - 12s^3r + 9s^2r, r^3s^3 - 9r^3s$

10) $8t^3 + u^3, (2t + u)^2, 4t^2 - 2tu + u^2$

LCM = $\underline{3r^3s^2(s - 3)(s + 3)(s - 1)}$

LCM = $\underline{(2t + u)^2(4t^2 - 2tu + u^2)}$

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