

Name : _____

LCM - Polynomials

L1S3

Find the least common multiple.

1) $7c^5(c^2 + c + 8), 21c^4(c^2 + c + 8)^2$

2) $(7g + 1)^3, (7g + 1)^7, (7g + 1)^2$

LCM = _____

LCM = _____

3) $(p + q)^5(p + 2), (p + 2)^2(p + q)^4$

4) $6m^4n^7(mn + 2m + 4n), 10m^9n^5$

LCM = _____

5) $20y^7(-y^2 + 10), 15x^6y^4$

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$(x^2 + 9)^3$

LCM = _____

7) $12a, 3a^2(4a - 5)^2, 20a^3$

$(t + u + v)^7, u^6v^2(t + u + v)$

LCM = _____

LCM = _____

9) $u(uv + 1)(-2u + 6v^3)^8, v(6v^3 - 2u)^2$

10) $8(-r^2 + 8)^7, 28(3rs + 5s - 8)(-r^2 + 8)$

LCM = _____

LCM = _____

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Name : _____

Answer key

LCM - Polynomials

L1S3

Find the least common multiple.

1) $7c^5(c^2 + c + 8), 21c^4(c^2 + c + 8)^2$

2) $(7g + 1)^3, (7g + 1)^7, (7g + 1)^2$

LCM = $21c^5(c^2 + c + 8)^2$

LCM = $(7g + 1)^7$

3) $(p + q)^5(p + 2), (p + 2)^2(p + q)^4$

4) $6m^4n^7(mn + 2m - 4n), 10m^9n^5$

LCM = $(p + q)^5(p + 2)^2$

LCM = $6m^9n^7(mn + 2m - 4n)$

5) $20y^7(-y^2 + 10), 15x^6y^4$

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$(d^7 + 9)^3$

LCM = $60x^6y^4$

LCM = $16d^8(d^7 + 9)^5$

7) $12a, 3a^2(4a - 5)^2, 20a^3$

$(t + u + v)^7, u^6v^2(t + u + v)$

LCM = $60a^3(4a - 5)^2$

LCM = $u^6v^2(-u^2v + 4t)^7(t + u + v)$

9) $u(uv + 1)(-2u + 6v^3)^8, v(6v^3 - 2u)^2$

10) $8(-r^2 + 8)^7, 28(3rs + 5s - 8)(-r^2 + 8)$

LCM = $uv(6v^3 - 2u)^8(uv + 1)$

LCM = $56(-r^2 + 8)^7(3rs + 5s - 8)$

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