

Name : _____

LCM - Polynomials

L2S5

Find the least common multiple.

1) $w^2 - 8w + 16, 7w^2 - 23w - 20$

2) $28q^6r^4, 21q^5r^5 + 7q^4r^6 + 14q^3r^7$

LCM = _____

LCM = _____

3) $8g^3 - h^3, (4g^2 + 2gh + h^2)^3$

4) $a^3 + d^3, a^2 + d^2, (a^2 - cd + d^2)^5$

LCM = _____

5) $(27m^3 + n^3)^2, (18m +$

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$+ 33s^2)^2(s + 5)$

LCM = _____

7) $t^2u^2 + 2tuv + v^2, (tu +$

$^2 - 9$

LCM = _____

LCM = _____

9) $20k^7, (34k^5 + 40k^3)^3$

10) $49p^2 - 16, (7p - 4)^9$

LCM = _____

LCM = _____

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Answer key

LCM - Polynomials

L2S5

Find the least common multiple.

1) $w^2 - 8w + 16, 7w^2 - 23w - 20$

2) $28q^6r^4, 21q^5r^5 + 7q^4r^6 + 14q^3r^7$

LCM = **$(w - 4)^2(7w + 5)$**

LCM = **$28q^6r^5(3q^2 + qr + 2r^2)$**

3) $8g^3 - h^3, (4g^2 + 2gh + h^2)^3$

4) $a^3 + b^3, a^2 - b^2, (c - d)^2 - cd + d^2)^5$

LCM = **$(2g - h)$**

 $(d + d^2)^5 (c + d)(c - d)$

5) $(27m^3 + n^3)^2, (18m + 3n)^2$

$+ 33s^2)^2(s + 5)$

LCM = **$6(3m + n)$**

 $4(2s + 11)^2(s + 5)$

7) $t^2u^2 + 2tuv + v^2, (tu + v)^2 - 9$

LCM = **$2t(tu + v)$**

LCM = **$(ab - 3)^2(ab + 3)$**

9) $20k^7, (34k^5 + 40k^3)^3$

10) $49p^2 - 16, (7p - 4)^9$

LCM = **$20k^9(17k^2 + 20)^3$**

LCM = **$(7p - 4)^9(7p + 4)$**

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