

Name : _____

LCM - Polynomials

Sheet 1

Find the least common multiple of each pair of polynomials.

1) $4(x + 7), 9(x + 7)^3$

LCM = _____

2) $8p(4 - 2q + r)^8, 3(4 - 2q + r)$

LCM = _____

3) $(x^2 - 9), 7(x^2 - 6x + 9)$

LCM = _____

4) $12(m + 5), 6(n - 9)^4$

LCM = _____

5) $25(u + v - w)^7, 2(u + v - w)^2$

LCM = _____

6) $96(a - 6), 8(a - 6)^9$

LCM = _____

7) $(f + 7), 48(f - 9)^5$

LCM = _____

8) $38(d^2 - 4), 6c(d^2 - 4d + 4)$

LCM = _____

9) $9b(h + 4)^7, 8c(h + 4)^3$

LCM = _____

10) $(s - 11 + t)^8, 64(s - 11 + t)^2$

LCM = _____

Name : _____

Answer key

Sheet 1

LCM - Polynomials

Find the least common multiple of each pair of polynomials.

1) $4(x + 7), 9(x + 7)^3$

LCM = $36(x + 7)^3$

2) $8p(4 - 2q + r)^8, 3(4 - 2q + r)$

LCM = $24p(4 - 2q + r)^8$

3) $(x^2 - 9), 7(x^2 - 6x + 9)$

LCM = $7(x - 3)^2(x + 3)$

4) $12(m + 5), 6(n - 9)^4$

LCM = $12(m + 5)(n - 9)^4$

5) $25(u + v - w)^7, 2(u + v - w)^2$

LCM = $50(u + v - w)^7$

6) $96(a - 6), 8(a - 6)^9$

LCM = $96(a - 6)^9$

7) $(f + 7), 48(f - 9)^5$

LCM = $48(f + 7)(f - 9)^5$

8) $38(d^2 - 4), 6c(d^2 - 4d + 4)$

LCM = $114c(d - 2)^2(d + 2)$

9) $9b(h + 4)^7, 8c(h + 4)^3$

LCM = $72bc(h + 4)^7$

10) $(s - 11 + t)^8, 64(s - 11 + t)^2$

LCM = $64(s - 11 + t)^8$