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

Name : _____

LCM - Polynomials

Sheet 2

Find the least common multiple of each pair of polynomials.

1) $20u(v - w + 1)^9, 72u(v - w + 1)^6$

LCM = _____

2) $5(x^4 + 5), 35(x^4 + 5)^7$

LCM = _____

3) $7(n - 5)^2, 2m(n^2 - 5^2)$

LCM = _____

4) $63(p + q - 1)^6, 12(p - q)$

LCM = _____

5) $x(z + 9)^7, 3y(z - 9)^2$

LCM = _____

6)

LCM = _____

7) $84c(f + 10), 8d(f + 5)^9$

LCM = _____

8)

LCM = _____

9) $10(a + b - 6)^7, 45(b - 6 + a)$

LCM = _____

10) $68t(u - 17), t(u - 17)^6$

LCM = _____

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Sheet 2

LCM - Polynomials

Find the least common multiple of each pair of polynomials.

1) $20u(v - w + 1)^9$, $72u(v - w + 1)^6$

LCM = **$360u(v - w + 1)^9$**

2) $5(x^4 + 5)$, $35(x^4 + 5)^7$

LCM = **$35(x^4 + 5)^7$**

3) $7(n - 5)^2$, $2m(n^2$ $5^2)$

LCM = **$14m($**

4) $63(p + q$ $1)^6$ $12(p - q)$

$+ q - 1)^6(p - q)$

5) $x(z + 9)^7$, $3y(z -$ $)^2$

LCM = **$3xy($**

$5s(t - 4)^8$

7) $84c(f + 10)$, $8d(f$ $+ 5)^9$

LCM = **$168ca(f + 10)$**

LCM = **$27b(c + 5)^9(c - 5)$**

9) $10(a + b - 6)^7$, $45(b - 6 + a)$

LCM = **$90(a + b - 6)^7$**

10) $68t(u - 17)$, $t(u - 17)^6$

LCM = **$68t(u - 17)^6$**

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Name : _____

LCM - Polynomials

Sheet 3

Find the least common multiple of each pair of polynomials.

1) $66(h^2 - 49), 18(h + 7)^5$

LCM = _____

2) $(4m + n)^7, 6(4m - n)^7$

LCM = _____

3) $92a(c - d + 2), 12b(2 \ldots d + c)^8$

LCM = _____

4) $18(u^6 \ldots 7), 5(u^6 \ldots + 7)^8$

LCM = _____

5) $s(7t + 9)^5, 26(7t \ldots$

LCM = _____

6) $\ldots 4(x + y + z)$

LCM = _____

7) $98a(b^2 - 10b + 2 \ldots$

LCM = _____

8) $\ldots - 67c)^8$

LCM = _____

9) $(2p - 6q + 4r)^9, 4(2p - 6q + 4r)^2$

LCM = _____

10) $48(u + 30)^6, 15(u + 30)^7$

LCM = _____

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Answer key

Sheet 3

LCM - Polynomials

Find the least common multiple of each pair of polynomials.

1) $66(h^2 - 49), 18(h + 7)^5$

LCM = **$198(h + 7)^5(h - 7)$**

2) $(4m + n)^7, 6(4m - n)^7$

LCM = **$6(4m + n)^7(4m - n)^7$**

3) $92a(c - d + 2), 12b(2 - d + c)^8$

LCM = **$276a$**

4) $18(u^6 - 7), 5(u^6 + 7)^8$

LCM = **$6 + 7)^8(u^6 - 7)$**

5) $s(7t + 9)^5, 26(7t$

LCM = **$2($**

6) $4(x + y + z)$

LCM = **$v(x + y + z)^3$**

7) $98a(b^2 - 10b + 2$

8) $ - 67c)^8$

LCM = **$294a(b - 5)$**

LCM = **$150(1 - 67c)^8$**

9) $(2p - 6q + 4r)^9, 4(2p - 6q + 4r)^2$

LCM = **$4(2p - 6q + 4r)^9$**

10) $48(u + 30)^6, 15(u + 30)^7$

LCM = **$240(u + 30)^7$**

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Name : _____

LCM - Polynomials

Sheet 4

Find the least common multiple of each pair of polynomials.

1) $9(2z + z^2 - 3)^4, (2z + z^2 - 3)^2$

LCM = _____

2) $15(6a + b), 70b(6a + b)^6$

LCM = _____

3) $12(3m + n)^8, 7(3m + n)$

LCM = _____

4) $(3u + v - 6w)^5, 8(3u + v - 6w)^3$

LCM = _____

5) $25r(s + t - 9), 5s$

LCM = _____

7) $4d(b + 2c), 3(b -$ $^2 - 8q + 16)$

LCM = _____

9) $31(p - 8)^2, 6p(p^2 - 8^2)$

LCM = _____

10) $65(10d + 2)^2, (10d - 2)$

LCM = _____

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Answer key

LCM - Polynomials

Sheet 4

Find the least common multiple of each pair of polynomials.

1) $9(2z + z^2 - 3)^4, (2z + z^2 - 3)^2$

LCM = $9(2z + z^2 - 3)^4$

2) $15(6a + b), 70b(6a + b)^6$

LCM = $210b(6a + b)^6$

3) $12(3m + n)^8, 7(3m + n)$

LCM = 84

4) $(3u + v - 6w)^5, 8(3u + v - 6w)^3$

$u + v - 6w)^5$

5) $25r(s + t - 9), 5s$

LCM = 25

$- 1)^5(f + 3)^2$

7) $4d(b + 2c), 3(b -$

$^2 - 8q + 16)$

LCM = $12d(b + 2c)(b - 2c)$

LCM = $204(q + 4)(q - 4)^2$

9) $31(p - 8)^2, 6p(p^2 - 8^2)$

LCM = $186p(p - 8)^2(p + 8)$

10) $65(10d + 2)^2, (10d - 2)$

LCM = $65(10d + 2)^2(10d - 2)$

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Name : _____

LCM - Polynomials

Sheet 5

Find the least common multiple of each pair of polynomials.

1) $82(f - 9)^8, 8(2f + 3)^3$

LCM = _____

2) $24a(b + 4c), 52(b + 4c)^3$

LCM = _____

3) $(x - 2)^2, (x^2 - 4x$

LCM = _____

4) $6t(s - t + 12)^9$

LCM = _____

5) $14(p^2 - 9), 12(p$

LCM = _____

7) $z(z + 6)^8, 49(z^2 -$

LCM = _____

9) $20(p + q - r)^5, 5(p + q - r)$

LCM = _____

10) $9u(v^2 - 49), 19v(v + 7)$

LCM = _____

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Sheet 5

LCM - Polynomials

Find the least common multiple of each pair of polynomials.

1) $82(f-9)^8, 8(2f+3)^3$

LCM = $328(f-9)^8(2f+3)^3$

2) $24a(b+4c), 52(b+4c)^3$

LCM = $312a(b+4c)^3$

3) $(x-2)^2, (x^2-4x-4)$

LCM = $(x-2$

4) $3s(s-t+12)^5, 6t(s-t+12)^9$

LCM = $(s-t+12)^9$

5) $14(p^2-9), 12(p$

LCM = $84($

7) $z(z+6)^8, 49(z^2-$

LCM = $49z(z+6)(z-6)$

$-2n)^6$

LCM = $13(m+2n)^8(m-2n)^6$

9) $20(p+q-r)^5, 5(p+q-r)$

LCM = $20(p+q-r)^5$

10) $9u(v^2-49), 19v(v+7)$

LCM = $171uv(v+7)(v-7)$

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