

Name : _____

GCF - Polynomials

Sheet 3

Find the greatest common factor for each pair of polynomials.

1) $66a^4b^8(c-d), 11a^3(c-d)^5$

GCF = _____

2) $30xy(a^4 - b^4), 10x^3y^2(a^2 + b^2)^2$

GCF = _____

3) $63m^2n(m^2 - 5m + 6), 21(m^2 - 7m + 10)$

GCF = _____

5) $(a + b)^2, (a + b)^6$

GCF = _____

7) $6x^2(x + y)^4, 3x(x + y)^3$

GCF = _____

9) $42(m - n)^3, 54(m - n)^5$

GCF = _____

10) $(q + r)^2, (q + r)^5, (q^2 - r^2)$

GCF = _____

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Answer key

GCF - Polynomials

Sheet 3

Find the greatest common factor for each pair of polynomials.

1) $66a^4b^8(c-d), 11a^3(c-d)^5$

GCF = $11a^3(c-d)$

2) $30xy(a^4 - b^4), 10x^3y^2(a^2 + b^2)^2$

GCF = $10xy(a^2 + b^2)$

3) $63m^2n(m^2 - 5m + 6), 21(m^2 - 7m + 10)$ 4) $72(x^2 - x - 1)^4, 12(x^2 - x - 1)^6$

GCF = $21(m^2 - 7m + 10)$ GCF = $12(x^2 - x - 1)^4$

5) $(a + b)^2, (a + b)^6$ 6) $p^2 + 12pq + 16q^2$

GCF = $(a + b)^2$ GCF = $4p^2 + 12pq + 16q^2$

7) $6x^2(x + y)^4, 3x(x + y)^3, 3d^3$

GCF = $3x(x + y)$ GCF = $(2c + 3d)$

9) $42(m - n)^3, 54(m - n)^5$ 10) $(q + r)^2, (q + r)^5, (q^2 - r^2)$

GCF = $6(m - n)^3$ GCF = $(q + r)$

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