

Name : _____

GCF - Polynomials

Sheet 1

Find the greatest common factor for each pair of polynomials.

1) $8(p - q), 4(p - q)^2$

GCF = _____

2) $27(x^2 - y^2), 9(x + y)$

GCF = _____

3) $15(x^2 + 3x + 2), 20(x + 2)^2$

GCF = _____

4) $81(q^3 - r^3), 3(q - r)$

GCF = _____

5) $12(u + v)^3, 21(u + v)^2$

GCF = _____

6) $6(x - y)^4, 18(x - y)^2$

GCF = _____

7) $8x^3 - 27y^3, (2x - 3y)^2$

GCF = _____

8) $16a^2 - 72ab + 81b^2, (4a - 9b)^4$

GCF = _____

9) $36(m + n), 18(m + n)^3$

GCF = _____

10) $(100m^2 - 81n^2), (10m + 9n)^5$

GCF = _____

Name : _____

Answer key

GCF - Polynomials

Sheet 1

Find the greatest common factor for each pair of polynomials.

1) $8(p - q), 4(p - q)^2$

GCF = **$4(p - q)$**

2) $27(x^2 - y^2), 9(x + y)$

GCF = **$9(x + y)$**

3) $15(x^2 + 3x + 2), 20(x + 2)^2$

GCF = **$5(x + 2)$**

4) $81(q^3 - r^3), 3(q - r)$

GCF = **$3(q - r)$**

5) $12(u + v)^3, 21(u + v)^2$

GCF = **$3(u + v)^2$**

6) $6(x - y)^4, 18(x - y)^2$

GCF = **$6(x - y)^2$**

7) $8x^3 - 27y^3, (2x - 3y)^2$

GCF = **$(2x - 3y)$**

8) $16a^2 - 72ab + 81b^2, (4a - 9b)^4$

GCF = **$(4a - 9b)^2$**

9) $36(m + n), 18(m + n)^3$

GCF = **$18(m + n)$**

10) $(100m^2 - 81n^2), (10m + 9n)^5$

GCF = **$(10m + 9n)$**