

Name : \_\_\_\_\_

## GCF - Polynomials

Sheet 2

Find the greatest common factor for each pair of polynomials.

1)  $(x^2 - 2x - 8), (x - 4)^5$

GCF = \_\_\_\_\_

2)  $(m^2 - 8m + 12), (m - 2)^4$

GCF = \_\_\_\_\_

3)  $(36a^2 - 49b^2), (6a + 7b)^3$

GCF = \_\_\_\_\_

4)  $18x^2 - 2x - 2), 12(x - 9)^4$

5)  $(p^2 + 2p - 24), (p^2 - 16)^2, 63(m^2 - n^2)$

GCF = \_\_\_\_\_

7)  $(a^2 + 6a + 9), (a - 1)^2, x^3y^2(x + y)^3$

GCF = \_\_\_\_\_

GCF = \_\_\_\_\_

9)  $5x^2y^5z^2(p - q)^2, 30x^8y^2z^6(p - q)^5$

GCF = \_\_\_\_\_

10)  $m^2n^3(m - n)^8, m^3n^3(m - n)^6$

GCF = \_\_\_\_\_

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## Answer key

### GCF - Polynomials

Sheet 2

Find the greatest common factor for each pair of polynomials.

1)  $(x^2 - 2x - 8), (x - 4)^5$

GCF =            **$(x - 4)$**           

2)  $(m^2 - 8m + 12), (m - 2)^4$

GCF =            **$(m - 2)$**           

3)  $(36a^2 - 49b^2), (6a + 7b)^3$

GCF =            **$(6a + 7b)$**           

4)  $18x^2 - 2x - 2), 12(x - 9)^4$

5)  $(p^2 + 2p - 24), (p - 6)^2, 63(m^2 - n^2)$

GCF =            **$(m^2 - n^2)$**           

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

GCF =            **$(a + 3)$**           

GCF =            **$24x^2y(x + y)^3$**           

9)  $5x^2y^5z^2(p - q)^2, 30x^8y^2z^6(p - q)^5$

GCF =            **$5x^2y^2z^2(p - q)^2$**           

10)  $m^2n^3(m - n)^8, m^3n^3(m - n)^6$

GCF =            **$m^2n^3(m - n)^6$**           

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