

GCF Polynomials

Name: _____

Date: _____

Find the greatest common factor for each pair of polynomial.

1

$$2x(x + 5), 15(x + 5)$$

GCF = _____

2

$$18(m + n)^3, 26(m + n)^2$$

GCF = _____

3

$$14(x - y), x(x - y)$$

GCF = _____

4

$$(6w^4 + 6w^3), (9w^3 - w^2)$$

GCF = _____

5

$$(6p^2 + 8p), (7p^2 + 9p)$$

GCF = _____

6

$$3(3m^4 + 5m^3), 9(5m^4 + 5m^3)$$

GCF = _____

7

$$(6a^4 - 3a^3), (4a^2 - 2a)$$

GCF = _____

8

$$(3y^3 + 6y^2), (-8y^2 + 9y)$$

GCF = _____

9

$$(5g^4 + 5g^3), (5g^5 + 4g^4)$$

GCF = _____

10

$$(3b^4 - 5b^3), (-6b^5 - 4b^4)$$

GCF = _____

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Name: _____

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Find the greatest common factor for each pair of polynomial.

1

$$2x(x + 5), 15(x + 5)$$

$$\text{GCF} = \underline{\hspace{2cm}} (x + 5)$$

2

$$18(m + n)^3, 26(m + n)^2$$

$$\text{GCF} = \underline{\hspace{2cm}} 2(m + n)^2$$

3

$$14(x - y), x(x - y)$$

$$\text{GCF} = \underline{\hspace{2cm}} (x - y)$$

4

$$(6w^4 + 6w^3), (9w^3 - w^2)$$

$$\text{GCF} = \underline{\hspace{2cm}} w^2$$

5

$$(6p^2 + 8p), (7p^2 + 9p)$$

$$\text{GCF} = \underline{\hspace{2cm}} p$$

6

$$3(3m^4 + 5m^3), 9(5m^4 + 5m^3)$$

$$\text{GCF} = \underline{\hspace{2cm}} 3m^3$$

7

$$(6a^4 - 3a^3), (4a^2 - 2a)$$

$$\text{GCF} = \underline{\hspace{2cm}} a(2a - 1)$$

8

$$(3y^3 + 6y^2), (-8y^2 + 9y)$$

$$\text{GCF} = \underline{\hspace{2cm}} y$$

9

$$(5g^4 + 5g^3), (5g^5 + 4g^4)$$

$$\text{GCF} = \underline{\hspace{2cm}} g^3$$

10

$$(3b^4 - 5b^3), (-6b^5 - 4b^4)$$

$$\text{GCF} = \underline{\hspace{2cm}} b^3$$