

GCF Polynomials

Name: _____

Date: _____

Find the greatest common factor for each pair of polynomial.

1

$$(4q^5 - 6q^4), (-6q^5 + 2q^4)$$

GCF = _____

2

$$(2n^5 + 5n^4), (7n^4 + 5n^3)$$

GCF = _____

3

$$(2a^3 + 3a^2), (6a^2 + 9a)$$

GCF = _____

4

$$(27x^5 - 9x^3), (7x^3 - 28x^2)$$

GCF = _____

5

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

GCF = _____

6

$$8(-18y^3 - 9y^3), 10(-27y^3 - 7y^3)$$

GCF = _____

7

$$(24m^3 + 8m^2), (28m^5 - 12m^4)$$

GCF = _____

8

$$(6k^3 + 3k^2), 24(4k^5 - 4k^4)$$

GCF = _____

9

$$(7a + 14), (5a^2 + 10a)$$

GCF = _____

10

$$(2n^5 + 5n^4), (7n^4 + 5n^3)$$

GCF = _____

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Name: _____

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Find the greatest common factor for each pair of polynomial.

1

$$(4q^5 - 6q^4), (-6q^5 + 2q^4)$$

$$\text{GCF} = \underline{\quad 2q^4 \quad}$$

2

$$(2n^5 + 5n^4), (7n^4 + 5n^3)$$

$$\text{GCF} = \underline{\quad n^3 \quad}$$

3

$$(2a^3 + 3a^2), (6a^2 + 9a)$$

$$\text{GCF} = \underline{\quad a(2a + 3) \quad}$$

4

$$(27x^5 - 9x^3), (7x^3 - 28x^2)$$

$$\text{GCF} = \underline{\quad x^2 \quad}$$

5

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

$$\text{GCF} = \underline{\quad x^2 \quad}$$

6

$$8(-18y^3 - 9y^3), 10(-27y^3 - 7y^3)$$

$$\text{GCF} = \underline{\quad 4y^3 \quad}$$

7

$$(24m^3 + 8m^2), (28m^5 - 12m^4)$$

$$\text{GCF} = \underline{\quad 4m^2 \quad}$$

8

$$(6k^3 + 3k^2), 24(4k^5 - 4k^4)$$

$$\text{GCF} = \underline{\quad 3k^2 \quad}$$

9

$$(7a + 14), (5a^2 + 10a)$$

$$\text{GCF} = \underline{\quad (a + 2) \quad}$$

10

$$(2n^5 + 5n^4), (7n^4 + 5n^3)$$

$$\text{GCF} = \underline{\quad n^3 \quad}$$