GCF Polynomials

Name:_____ Date:_____

Find the greatest common factor for each pair of polynomial.

1

$(25m^4 + 5m^3)$, $(-5m^4 + 5m^3)$

GCF = _____

2

$(-9y^3 - 9y^2)$, $(-7y^3 - 7y^2)$

GCF = _____

3

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

GCF = _____

4

$(3t^4 + 9t^3)$, $(5t^5 + 15t^4)$

GCF = _____

5

$(5a^4 + 5a^3)$, $20(5a^5 + 4a^4)$

GCF = _____

6

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

GCF = _____

7

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

GCF = _____

8

$5(x^2 + 3x)^2$, $10(x + 3)^2$

GCF = _____

9

$(-9x^4 - 18x^3)$, $(-10x^2 + 12x)$

GCF = _____

10

$(3a - 9b)^2$, $(3a - 9b)^2$

GCF = _____

GCF Polynomials

Name:_____ Date:_____

Find the greatest common factor for each pair of polynomial.

1

$(25m^4 + 5m^3)$, $(-5m^4 + 5m^3)$

GCF = $5m^3$

2

$(-9y^3 - 9y^2)$, $(-7y^3 - 7y^2)$

GCF = $y^2(-y-1)$

3

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

GCF = x^2

4

$(3t^4 + 9t^3)$, $(5t^5 + 15t^4)$

GCF = $t^3(t + 3)$

5

$(5a^4 + 5a^3)$, $20(5a^5 + 4a^4)$

GCF = $5a^3$

6

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

GCF = $a(2a + 3)$

7

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

GCF = y

8

$5(x^2 + 3x)^2$, $10(x + 3)^2$

GCF = $5(x + 3)^2$

9

$(-9x^4 - 18x^3)$, $(-10x^2 + 12x)$

GCF = x

10

$(3a - 9b)^2$, $(3a - 9b)^2$

GCF = $9(3b - a)^2$