

Factoring out a GCF

$$24x^3y^2 - 18x^4y^2$$

$$\text{GCF: } 6x^3y^2$$

$$\text{GCF} \left(\frac{\text{polynomial}}{\text{gcf}} \right)$$

$$6x^3y^2 \left(\frac{24x^3y^2}{6x^3y^2} - \frac{18x^4y^2}{6x^3y^2} \right)$$

$$6x^3y^2(4 - 3x)$$

$$24x^3y^2 - 18x^4y^2 \checkmark$$

GCF on Calc.

select "MATH"

scroll R to "NUM"

Scroll up to gcd(

hit 9: enter

$\text{gcd}(\#, \#) = \text{answer}$

A, B, C, D

$\text{gcd}(A, B) = n_1$

$\text{gcd}(n_1, C) = n_2$

$\text{gcd}(n_2, D) = \text{answer}$

$(A, B) = n_1$ $(C, D) = n_2$ (n_1, n_2)

$-18x^4y^3$ $38x^4y^2$ $72x^2y^5$

$\text{gcd}(18, 38) = 2$

$\text{gcd}(2, 72) = 2$

$\text{lcm}(18, 38) = 342$

$\text{lcm}(342, 72) = 1368$

$$10ab^3 - 15a^2b^2$$

$$\text{gcf: } 5ab^2$$

$$5ab^2 \left(\frac{10ab^3}{5ab^2} - \frac{15a^2b^2}{5ab^2} \right)$$

$$5ab^2(2b - 3a)$$

$$11x^3y + 33x^3y^3 - 44x^5y$$

$$\text{gcf: } 11x^3y$$

$$11x^3y \left(\frac{11x^3y}{11x^3y} + \frac{33x^3y^3}{11x^3y} - \frac{44x^5y}{11x^3y} \right)$$

$$11x^3y(1 + 3y^2 - 4x^2)$$