

Homework
p. 185 # 1, 2, 3, 4 oral
1, 2 written

Factoring Out the GCF.

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

$$\text{GCF: } 5ab$$

$$\text{GCF} \cdot \left(\frac{\text{term}}{\text{GCF}} + \frac{\text{term}}{\text{GCF}} \right)$$

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

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

check:

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

$$3x^3 - 15x^2$$

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

$$3x^2 \left(\frac{3x^3}{3x^2} - \frac{15x^2}{3x^2} \right)$$

$$3x^2(x - 5)$$

$$\rightarrow 3x^3 - 15x^2 \checkmark$$

$$24x^2y - 40xy$$

$$\text{GCF: } 8xy$$

$$8xy \left(\frac{24x^2y}{8xy} - \frac{40xy}{8xy} \right)$$

$$8xy(3x - 5)$$

A, B, C

$$\text{Gcd}(A, B) = \#$$

$$\text{gcd}(\#, C) = \underline{\underline{\text{GCF}}}$$

if you didn't quite get the gcf

$$24x^2y - 40xy$$

$$\text{GCF: } 4xy$$

$$4xy(6x - 10)$$

$$4xy \cdot 2(3x - 5)$$

$$8xy(3x - 5)$$

$$32x^2y^2 - 8x^2y$$

$$\text{GCF: } 8x^2y$$

$$8x^2y \left(\frac{32x^2y^2}{8x^2y} - \frac{8x^2y}{8x^2y} \right)$$

$$8x^2y(4y - 1)$$