Intro to College Math: Chapter 5.7
Division by a monomial

1. Perform the following division (find the following quotient).

$$\frac{54x + 18y}{6} =$$

$$\frac{54x}{6} + \frac{18y}{6} =$$

$$9x + 3y$$

To Divide:
* separate each term on top and include the denominator under each one.
* Then use calculator to simplify each fraction.

2. Perform the following division (find the following quotient).

$$\frac{56x - 72y}{-8} =$$

$$\frac{56x}{-8} \quad \frac{-72y}{-8}$$

$$-7x + 9y$$

To Divide:
* separate each term on top and include the denominator under each one.
* Then use calculator to simplify each fraction.

*Remember: a $\frac{(-)}{(-)} = (+)$

3. Perform the following division (find the following quotient).

$$\frac{18xy - 48x}{6x}$$

$$\frac{18xy}{6x} \quad \frac{-48x}{6x}$$

$$3y - 8$$

To Divide:
* separate each term on top and include the denominator under each one.
* Then use calculator to simplify each fraction.
* Then since you have the exact same variable on the top and the bottom, you can cancel them out.

4. Perform the following division (find the following quotient).

$$\frac{32xy^2 - 56x}{-8x}$$

$$\frac{32xy^2}{-8x} \quad \frac{-56x}{-8x}$$

$$-4y^2 + 7$$

To Divide:
* separate each term on top and include the denominator under each one.
* Then use calculator to simplify each fraction.
* Then since you have the exact same variable on the top and the bottom, you can cancel them out.