5.6b - Dividing Polynomials by Monomials Math 9 Notes

Name

Divide
$$\frac{12x^3yz^2}{-3xz^2} = -\frac{1}{2}x^2y$$

$$12\frac{1}{2}-3$$

$$x^{3-1}$$

What steps did you use to solve the above division?

Divide roefficients.
2) Divide 'liketerms' by subtracting exponents

$$\frac{\text{Ex1 - Divide}}{\frac{5xyz + 10xy}{5xy}} = \frac{8xyz}{8xy} + \frac{10xy}{5xy}$$

$$= \frac{7}{2} + \frac{2}{3}$$

What are the steps involved?

(1) Divide everyterm on top by the termon the bottom

(2) Use the same steps about

Ex2-Simplify
a)
$$\frac{18x^2y^2z^2-12x^3yz^2}{6xyz} = \frac{1}{18x^2y^2z^2} = \frac{1}{18x^2y^2z^$$

b)
$$\frac{-10a^{5}b^{4} + 5a^{6}b^{8}}{-5ab^{4}} = \frac{-10a^{5}b^{4}}{-5ab^{4}} + \frac{8a^{5}b^{8}}{-8ab^{4}}$$

$$= 2a^{4} - a^{5}b^{4}$$

5.6b - Dividing Polynomials by Monomials Math 9 Notes Name $=3y^{2}-1+2u$ **Reflection:** What are the steps to dividing a polynomial by a monomial? What results when a top term and bottom term perfectly cancel?

HW: dividing worksheet

6(2× +5),224 (3×2+9); (3×+5(x+2)) Quiz Friday -multiplying polynomials XIIX - dividing monomials What including today $\frac{35\times^2y^2}{5\times^2y^2}$

answers posted on myblog Lo today's the Ch. 5 Test Thursday Jan. 14