Dividing Polynomials

p.271 #2f)

$$\frac{9xy}{-3x}$$

same ÷ same

$$= -3(1)y$$

$$= -3y$$

Ex. 1

a) $\frac{3x^4y^3}{x^3y^2}$

$= 3x^1y^1$

$= 3xy$

b) $\frac{a^5b^6}{3a^3b^3}$

$= \frac{(1a^2b^3)}{3}$

$= \frac{a^2b^3}{3}$

dividing polynomials worksheet

#1 a) $\frac{6x}{2} = 3x$ b) $\frac{14x^2}{2} = 7x^2$

c) $\frac{12x^2y}{4} = 3x^2y$ d) $\frac{6y^3}{(-3)} = -2y^3$

dividing polynomials worksheet

4a) like terms

$$\frac{8x^3 + 4x^3 + 16x}{4x}$$

unlike

$$= \frac{12x^3 + 16x}{4x}$$

$$= \frac{12x^3}{4x^1} + \frac{16x}{4x}$$

$$= 3x^2 + 4$$

45) mono $\div$ mono

$$\frac{12x^3y^2z^4 + 9xyz^2 - 15x^2y^3z^4}{-3xyz^2}$$

$$= \frac{12x^3y^2z^4}{-3xyz^2} + \frac{9xyz^2}{-3xyz^2} - \frac{15x^2y^3z^4}{-3xyz^2}$$

$$= -4x^2yz^2 + (-3)(1)(1)(1) - (-5)xy^2z^2$$

$$= -4x^2yz^2 - 3 + 5xy^2z^2$$

like terms