

7.1 Multiplying and Dividing Monomials

Ch. 3 Review

$$x^m \cdot x^n = x^{m+n}$$

$$\frac{x^m}{x^n} = x^{m-n}$$

$$(x^m)^n = x^{mn}$$

$$(x \cdot y)^m = x^m \cdot y^m$$

Ex 1: Multiplying Monomials

a) $(5x)(2x)$

$$= 10x^2$$

$$(5x)(2x)$$

$$5 \cdot 2 \cdot x \cdot x$$

$$= 10x^2$$

b) $(3x)(2y)$

$$= 6xy$$

$$(3x)(2y)$$

$$3 \cdot 2 \cdot x \cdot y$$

$$= 6xy$$

SYK: a) $(4x)(2y)$

b) $(-x)(7x)$

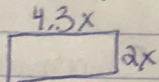
Ex 2: Apply Monomial Multiplication

Find the area.

$$A = lw$$

$$= (4.3x)(2x)$$

$$= 8.6x^2$$



SYK: a) $(11a)(2b)$

b) $(-5x)(3.2)$

Ex 3: Dividing Monomials

a) $\frac{-10x^2}{2x}$

$$\rightarrow -5x$$

$$\frac{-10}{2} \cdot \frac{x^2}{x}$$

$$= -5x$$

b) $\frac{8xy}{4x}$

$$= 2y$$

$$\frac{8}{4} \cdot \frac{xy}{x}$$

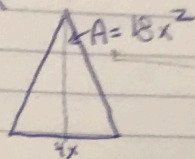
$$= 2 \cdot y = 2y$$

SYK: a) $\frac{12xy}{3y}$

b) $\frac{-14x^2}{-2x}$

Ex 4: Apply Polynomial Division

What is the height of the triangle?



$$A = \frac{bh}{2}$$

$$2(18x^2) = \frac{4x \cdot h}{2} \cdot 2$$

$$\frac{36x^2}{4x} = \frac{4x \cdot h}{4x}$$

$$9x = h$$

SYK: a) $\frac{18x^2}{3x}$

b) $14y = (-2)$

c) $\frac{18.6mn}{3n}$

miss ray how's your day

-lanacey cori felle QB Feb 14/20 1:29 pm Day 2 period

