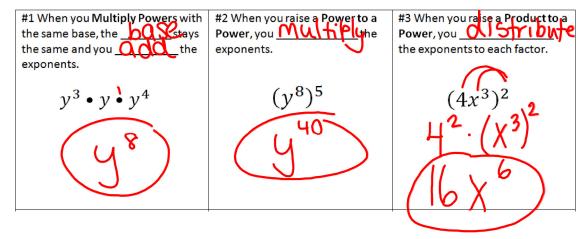
Guiding Question: Can you use your knowledge of exponent rules to simplify exponential expressions?

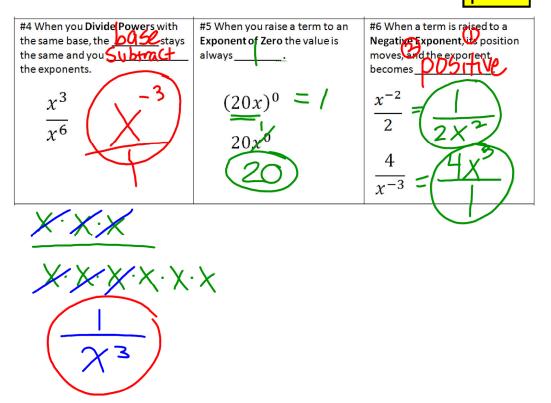
p. 12-13 Exponent Rules Summary 6.4

p. 12

# Warm-up: Complete the following problems in the space provided



#### p. 12



MUST KNOWS - EXPONENT RULES			
Multiplying Powers	Power to a Power	Product to a Power	Negative Exponents
$(a^m)(a^n) =$ $\mathcal{A}^{M+h}$	$(a^m)^n =$	$(a^{ih}b^{ij})^{p} =$	$a^{-m} = \frac{1}{QM}$
Dividing Powers	Quotient to a Power	Zero Exponent	Negative Exponents
$\frac{a^m}{a^n} = \bigcap_{n \in \mathbb{N}} \bigcap_$	$\left(\frac{a^{m}}{b^{n}}\right)^{p} = \left(\frac{a^{m} - p}{a^{m} - p}\right)^{p}$	$a^0 =$	$\frac{1}{a^{-m}}$

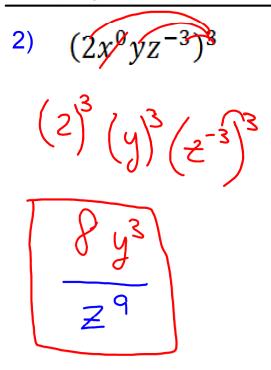
p. 13

## Simplify the Exponential Expression

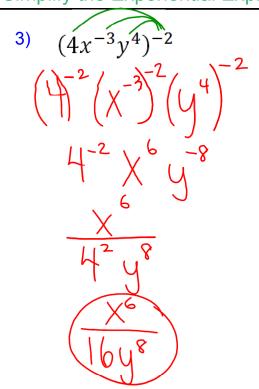
1) 
$$2x^3y^{1} \cdot 7x^{1}y^{-3}$$

p. 13

### Simplify the Exponential Expression

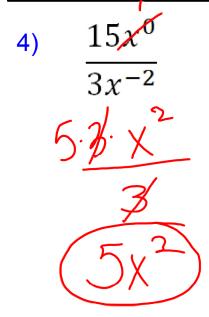


p. 13
Simplify the Exponential Expression



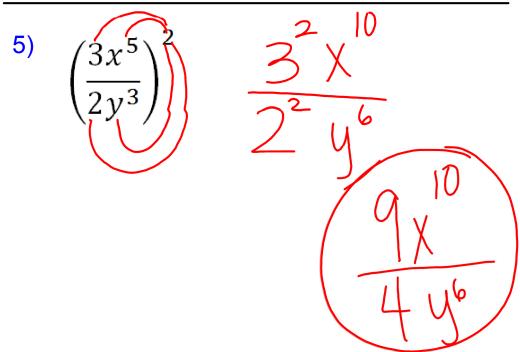
p. 13

## Simplify the Exponential Expression



p. 13

## Simplify the Exponential Expression



1. Start stations activity