

Name: _____

Points: _____

Properties of Exponents

Multiplication/Product Rule	$x^m \cdot x^n =$
Division/Quotient Rule	$\frac{x^m}{x^n} =$ where $(x \neq 0)$
Zero Exponent	$x^0 =$ where $(x \neq 0)$
Power of a Power	$(x^m)^n =$
Power of a Product	$(x \cdot y)^n =$
Power of a Quotient	$\left(\frac{x}{y}\right)^n =$ where $(y \neq 0)$
Negative Exponent	$x^{-n} =$ where $(x \neq 0)$

Find the error #1

Multiply: $a^2 \cdot a^3 = a^6$

Find the error #2

Add: $x^2 + x^2 = x^4$

Find the error #3

$$\frac{x^5}{x^{-2}} = x^3$$

Find the error #4

$$(2x^5)^4 = 8x^9$$



Find the error #5

$$\frac{x^2 y^3}{xy^3} = xy$$

