Exponent Laws

Exponential Function Format:

Exponential Laws - Review (Mostly)

Exponents represent _____. ex. expand _____

Multiplication

ex. simplify _____ to a single base

n.b. _____ must be the _____

Division

Case #1: exponent in _____ *is* _____ *than the one in* _____

ex. simplify _____ to a single base

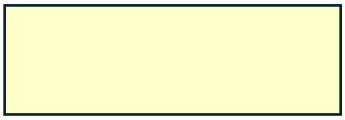
Case #2: exponent in _____ *is* _____ *than the one in* _____

ex. simplify _____ to a single base

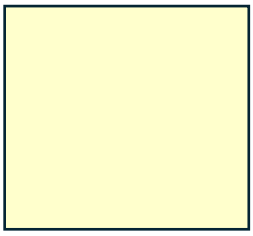
Power to a Power

ex. simplify _____ to a single base

Multiple Factors Raised to a Power

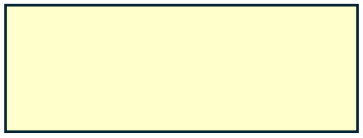


ex.



Radicals as Rational Exponents - IMPORTANT

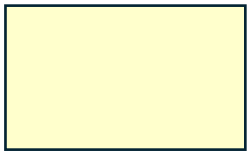
A _____ number is one that can be _____ as a _____.



ex. write _____ in _____ form

ex. simplify _____

Express Exponent as a Positive Number



ex. [revisit above]

Alternate Use: Bring an _____ into _____ regardless of _____.

ex. rewrite _____ in the format of _____:

Expressing Exponents with Like Bases

ex. Modify _____ and _____ s.t. they have the _____ base.

ex. Modify _____ and _____ s.t. they have a _____ base.

Solving Exponential Equations – Introduction

ex. Solve for *x*:

once _____ are the _____,

just set _____ equal to each other

Do: Solve for *x*: