Math 9 Chapter 1 – Exponent Rules Summary Sheet

Zero Exponent Rule:

$$a^0 = \underline{\hspace{1.5cm}} \qquad a \neq \underline{\hspace{1cm}}$$

Make up a question that uses the Zero Exponent Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Zero Exponent Rule works
(HINT: Look at the notes from class)

Product Rule:

$$a^n \times a^m = \underline{\hspace{1.5cm}}$$

Make up a question that uses the Product Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Product Rule works
(HINT: Look at the notes from class)

Quotient Rule:

$$a^n \div a^m = \underline{\hspace{1.5cm}}$$

Make up a question that uses the Quotient Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Quotient Rule works (HINT: Look at the notes from class)

Power of a Power Rule:

$$(a^n)^m = \underline{\hspace{1.5cm}}$$

Make up a question that uses the Power of a Power Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Power of a Power Rule works
(HINT: Look at the notes from class)

Power of a Product Rule:

$$(a \times b)^n =$$

Make up a question that uses the Power of a Product Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Power of a Product Rule works
(HINT: Look at the notes from class)

Power of a Quotient Rule:

$$\left(\frac{a}{b}\right)^n = \underline{\qquad}$$

Make up a question that uses the Power of a Quotient Rule, then solve it!

Using variables or numbers, show **WHY/HOW** the Power of a Quotient Rule works
(HINT: Look at the notes from class)

Homework: Section 1.8 on Pg. 44; 1-10all, 11-18right
Look at homework from Sections 1.1-1.7 based on where you had trouble on quizzes

Looking at my quizzes, I had trouble with:

To help prepare for the test, I want to go over these sections in the workbook:

To help prepare for the test, I want to re-try these quizzes (Blank copies and solution are on the website):