**GRADE 11 LESSON 2- 10 -2- 21**

EXPONENTS

exponent

**power**

Base

Laws of exponents

1. Multiplication Law: [ when multiplying the powers with the

same bases , we add the exponents]

1. Division Law: [when we divide powers with the same bases

we subtract the exponents]

1. Zero as an exponent: [ Any base with exponent zero with the

exception of zero itself is 1]

1. Negative exponents: [ If exponent becomes positive, the result

becomes a reciprocal of the original]

or

1. Raising to a power:

Examples:

1. [Same bases add exponents. ]
2. [Same bases subtract exponents]
3. or
4. or or

**EXERCISE**

In your 2 quire homework book, attempt the following questions using the examples given above.

Simplify the following. Write the answers with **positive exponents**.

1. 5.
2. 6.
3. 7.
4. 8.