CHAPTER 5
SEC 5.EXPONENTS AND THEIR PROPERTIES

1: What does a^3 mean:

2: What is the product rule (for exponents)

3: When you divide powers with the same base what must you do with exponents in the quotients? Write the algebraic formula.

4: What is the power rule for exponents?

5: Complete this sentence "Any nonzero number raised to the 0 power is _____"

Do these problems: 5.1(page 292):9; 15-37 (odd); 49,50,53; 57-75 (odd)

5.2 NEGATIVE EXPONENTS AND SCIENTIFIC NOTATION

1. $x \ and \ x^{-1}$ are _____ of each other

2. If x= 23,400,342 then x^{-1} is a very (SMALL or LARGE) number. (Circle the correct answer).

3. Multiply your age by 8 and leave the answer in scientific notation.

Do these problems 5.2(page 300):5-21 (odd); 25-31(odd); 33-53(odd); 93-101(odd); 103-111(odd)

Sec 5.3 POLYNOMIALS

1: Write the terms of this polynomial: $3t^4 - 5t^6 - 4t$

2: The constant factor, in front of the variable, is called what? (see page 305)

3: What is the LEADING term in any polynomial (pg 305).

4: What is meant by the DEGREE of the polynomial.

6: In what order should polynomials with only one variable be arranged?

Do these problems: 5.3(page 308): 13,15,17, 27, 28, 37- 47(odd); 51,55,57

Sec 5.4. ADDITION AND SUBTRACTION OF POLYNOMIALS
1: When adding polynomials we combine _____ terms. (Page 312)

2: Give an example of two LIKE terms:_____

3: Give an example of two terms that are NOT like terms:_____

4: What is the opposite of a polynomial?

Do these problems: 5.4: (page 317): 5-15 (odd); 27,29; 31,32,33,34;37-47(odd)

Sec 5.5 MULTIPLICATION OF POLYNOMIALS
1: If you were to multiply a binomial by a trinomial, how many terms might you expect in the product before combining?

2: How do you check your answer after multiplying polynomials?

Do these problems and check your answer: 5.5: (page 325): 7-21(odd); 37-49 (odd); 57-63 (odd)

5.6: SPECIAL PRODUCTS
1: The FOIL method can be used only when multiplying _____ (monomials, binomials,trinomial or any polynomial).

2: Using the letters A and B write the equation for the product of a SUM and a DIFFERENCE. (page 329)

3: Is this a true statement $(a+b)^2 = a^2 + b^2$?

Do these problems and check your answer: 5.6 (page 334): 5-31 (odd); 39- 59 (odd); 67-75 (odd)

5.7: POLYNOMIALS IN SEVERAL VARIABLES
1: Complete this sentence (page 339): "The degree of a monomial with two or more variables is...."

2: Complete this sentence (page 339); "*Like,* or *Similar, terms* either have....

3: Review Example 8c(page 340) and show me how to check the answer by evaluation.

Do these problems and check your answer: 5.7 (page 342): 9, 21, 25-31(odd); 33-39 (odd); 51-59 (odd)

5.8: DIVISION OF POLYNOMIALS.
1: You have just divided one polynomial by another and found the quotient. How do you check your answer.

Do these problems and check your answer: 5.8 (page 350): 5-12; 17, 18, 19, 20, 23, 24, 25, 27, 29, 33