

OREGON TECH

MATH 70 Course Content

Graphing or symbolic calculators will not be used during any tests.

Objectives:

1. Evaluate numeric and algebraic expressions involving operations with signed numbers without using calculators.
2. Add, subtract, multiply, and divide algebraic expressions.
3. Factor algebraic expressions.
4. Solve a variety of polynomial equations (degree 3 or less).
5. Reduce and perform operations on rational expressions.
6. Graph simple two-variable equations.

Core Skills and Topics:

1. Evaluate expressions using order of operations.
2. Perform operations with signed numbers.
3. Perform operations with positive and negative integer exponents.
4. Add, subtract, multiply, and divide (long division of) polynomials.
5. Solve one-variable linear equations.
6. Solve word problems (emphasis on algebraic representation).
7. Factor polynomials (common factor, trinomial, difference of two squares).
8. Solve first degree literal equations.
9. Solve polynomial equations by factoring via the methods listed above.
10. Reduce, add, subtract, multiply and divide rational expressions.
11. Graph two-variable equations by plotting points (include linear and simple nonlinear equations).

Exposure Topics.

1. Simplify complex fractions.
2. Solve rational equations.
3. Factor by grouping.

3/27/05