

Virginia Western Community College

MTE 6

Exponents, Factoring, and Polynomial Equations

Prerequisites

MTE 5 or a qualifying placement score.

Course Description

The student will learn to perform operations on exponential expressions and polynomials. Students will also learn techniques to factor polynomials and use these techniques to solve polynomial equations. Emphasis should be on learning all the different factoring methods, and solving application problems using polynomial equations. Credit is not applicable toward graduation.

Semester Credits: 1

Lecture Hours: 1

Required Materials

Textbook:

MyLabs Plus Access Code. Pearson Publishing. ISBN: 9780558927189.

Other Required Materials:

Scientific calculator, Headphones, 3-ring binder

Course Outcomes

At the completion of this course, the student should be able to:

- Factor polynomials and use learned techniques to solve polynomial equations.

Topical Description

Each unit requires the student to complete eight homework assignments, a practice test, personalized review, and a final exam. Students must complete the homework assignments and review with 90% accuracy. As a minimum pace, students must complete five assignments and/or final exams every two weeks. Emphasis should be placed on learning all the different factoring methods, and solving application problems using polynomial equations. In order to pass the unit, students must pass the final exam with a minimum score of 75%.

| <u>Homework Assignment Number</u> | <u>Sections Covered</u> |
|-----------------------------------|-------------------------|
| 1 | 13.1, 13.2 |
| 2 | 13.3, 13.4 |
| 3 | 13.5, 13.6 |
| 4 | 14.1 |
| 5 | 14.2, 14.3 |
| 6 | 14.4, 14.5 |
| 7 | 14.6 |
| 8 | 14.7 |

Notes to Instructors

None.