

REVIEW TEST 2
Chapters 5, 6, and 9 (9.1 – 9.4)
Sections 7.3 , 7.4, 8.1, 8.10

To prepare for the test, study:

- all exercises and examples done in class
- all examples from the book
- homework problems assigned from the above sections
- quiz #2

Chapter 9

You should master the following:

- finding the n th term of a given sequence
- finding the first few terms of a given sequence
- summation notation and evaluating a sum
- identifying an arithmetic and geometric sequence/series
- give examples of arithmetic and geometric sequences
- finding the sum of the first n terms of an arithmetic and geometric sequence
- expressing an infinite repeating decimal as a rational number
- finding the sum of an infinite geometric series
- applying the principal of mathematical induction

Chapter 8

You should master the following:

- solving a system of equations using the substitution method (8.1)
- finding the partial fraction decomposition of a given rational expression (8.10)

Chapter 7

You should master the following:

- finding the magnitude, horizontal and vertical components of a vector
- proving properties of addition and scalar multiples of vectors
- finding the dot product of two vectors
- finding the angle between two angles
- finding whether or not two vectors are parallel or perpendicular using the dot product

Chapters 5 & 6 (Trigonometry)

You should master all the topics listed as a review for Quiz #2.