Trigonometry

Chapter 5/6 Exam

Part I

Chapter 5 Items	Chapter 6 Items
➢ Verifying trigonometric Identities (proofs). ➢ Simplifying trigonometric Identities. ➢ Solving trigonometric equations. (3 types). • Normal • Angle is 4θ • Quadratic form (factoring needed)	➢ Convert rectangular coordinates → polar form. ➢ Convert polar equations → rectangular form. ➢ Convert rectangular equations → polar form. ➢ Express the given polar coordinate multiple ways. ➢ Vector operations add, subtract or multiply.

Part II

Chapter 6 Items
➢ Find the magnitude and direction of a vector ➢ Convert complex #'s in polar form → rectangular form ➢ Word problem (vectors). "Two forces act on an object…." ➢ Divide complex numbers in polar form. ➢ Multiply complex #'s in polar form. ➢ Raise a complex # to a power. ➢ Convert a complex # from rectangular form → polar form ➢ Find the component form of a vector given the magnitude and direction. ➢ Use the Law of Cosines to find the missing part of a triangle. ➢ Word problem involving bearings.