Are you ready for Unit 4 Test?

Magnitude of a vector

Component form –given ordered pairs

 Given magnitude and direction

Find magnitude and direction given component form

Add/subtract vectors in component form

Scalar multiplication

Dot product of 2 vectors

Orthogonal vectors

Angle between 2 vectors

Find a unit vector

Parallelogram method for geometrically adding vectors

Force diagrams

Bearing problems

Parametric Equations—Projectile Motion Formula

Parametric Equations – Eliminate the parameter

Graphing polar points

Polar Coordinates $\leftrightarrow $Rectangular coordinates

Renaming Polar coordinates

Polar Equations $\leftrightarrow $Rectangular equations

Circles, limacons, roses, spirals, etc

Add, subtract, multiply, divide complex numbers

Complex conjugates

4 forms of a number

Absolute value and argument

Changing forms of any number

Powers of complex numbers (DeMoivre’s Theorem)

Roots of complex numbers (Nth Roots Theorem)