**MAH Semester 1 Final 1 Review 2015**

Find problems in your book, chapter worksheets, or create your own. The problems should not involve the graphing calculator. Write out the problem and the complete solutions:

Day 1

* Three problems involving wheels
  + At least one should include linear and angular speed
  + At least one should include writing an equation to model some measurement over time
* A trig graphing problem for each of the six trig functions involving all 4 of the transformations. This is 6 graphing problems total.
* Three trig identity proofs
  + At least one involving a Pythagorean Identity
  + At least one involving a Double Angle Identity

Day 2

* Four different vector problems
  + Two Cart pulling problems
  + One Airplane with wind problem
  + One Swimmer problem
* De Moivre’s WS 1 and 2
* Four problems from the Polar Systems WS, including #11