**Ch 8 Learning Targets**

In Ch 8, you will be learning:

Sec 8.1 – 2:

• about right triangle similarity when an altitude is drawn

• to calculate the geometric mean and apply it to right triangles

• to prove and use the Pythagorean Theorem, Converse and Inequality Thms

Sec 8.3. – 4

• how to use special triangles to solve problems

• to use trigonometry ratios in right triangle to solve for missing sides/ angles

Sec 8.5

• how to use angles of elevation and depression to solve problems

• to apply unit circle values to solving trig problems

Sec 8.6

• about proving and using the Law of Sines and Cosines to solve non-right triangle problems

Sec8.7

• about vectors – component form, magnitude, direction and adding vectors