**Mathematics 1201**

**Study Guide (Unit 2)**

☼ Identify hypotenuse, adjacent side and opposite side in a right triangle.

☼ Know the ratio for **sine**, **cosine** and **tangent**

**☼** Find a missing acute angle in a right triangle using a trigonometric ratio

→ Label two known sides as the adjacent, opposite and hypotenuse

→ Decide on the trigonometric ratio to use

→ Needs to use a calculator and sin-1 , cos-1 or tan-1

☼ Find a missing side in a right triangle using a trigonometric ratio

→ Ask yourself these two questions

What side do I know?

What side am I asked to find?

→ Decide on which trigonometric ratio to use

→ Write an equation and solve for the missing side

☼ Identify the angle of inclination, angle of elevation and angle of depression

☼ Solve one step word problems using a trigonometric ratio

☼ Solve right triangles

→ Given a side and an angle

→ Given two sides

☼ Solve problems with more than one right triangle