SUVA SANGAM COLLEGE

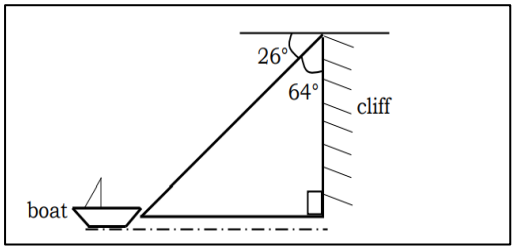
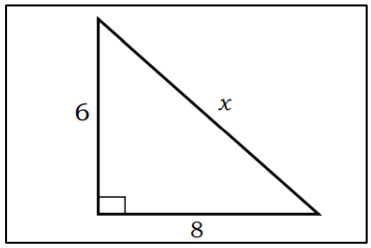
YEAR 10

MATHEMATICS

WORKSHEET 10

Strand 4:	**Trigonometry**
Sub-strand:	Pythagoras Theorem and trigonometric functions
Content learning outcome	1. Study and discuss Pythagoras Theorem and how it is applied to any given right – angled triangle. 2. Discuss properties of Basic Trigonometric functions and use recommended calculator to calculate unknown angles. 3. Study and demonstrate a clinometer in practical situation appropriately.

Questions

No	**Concept in brief:** use Pythagoras theorem to solve for the unknown. Use the calculator to find the values of angles shown. And determine the angle of elevation and depression.
1.	Find the value of the following: (i) sin 30º + tan 45º (ii) cos 60° + sin 180°
2.	Study the diagram given below which shows a boat at a distance from a cliff.  Calculate the angle of elevation.
3.	For the right angled triangle shown below, find the value of length x.