Year Ten Advanced Homework, Term 2, Sheet 2 2015

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Name:_____   Due Date: Tuesday 28th April

Worded Problems – You must draw a diagram for each question

1. A 3 metres ladder leans against a wall so that the horizontal angle it makes with the ground is 52°. How far out from the wall does the ladder reach?

(3)

2. A ladder leans against a wall so that it is 1.5 m up the wall and 4.2 m out from the wall. Find the angle the ladder makes with the vertical.

(3)

3. A ship sails from port in the direction N 40° E. After the ship has sailed 25km, how far east of port is it? Draw a diagram.

(3)

4. A balloon is attached to a 12 m piece of string. If the balloon is blown to an angle of 52° from the vertical, find its vertical height above the ground.

(3)

5. Show the following on a diagram
a) 123° T
b) N 15° W
c) S 47° E
d) 260° T

(4)

6. While on vacation Aimee measured the angle of elevation to the top of a monument to be 64°. If she was standing 26.6 m away from the base of the monument, find the height of the monument? Provide a diagram?

(3)