

Homework Section 2.5 - Due 21th Sep

**Give your answers to 3 decimal places where appropriate.
No marks will be given if no working is shown.**

1. Alice and Bob are both running down a straight road away from a chasing monster that eats people. Bob can run faster and is 68 metres ahead of Alice at a particular time. Suppose at that same time, the angle of elevation from Alice and Bob to the top of the monster's head is 52.5° and 41.2° respectively. Compute the height of the monster.

Hint: Make a sketch and be creative at drawing your human eating monster*.

*Creativity of monster here does not constitute any marks in this homework.