

Name: _____

Show work needed to justify your answer.

Date: _____

HW: # 42a: Math IBSL - Standard 40 - Right Angled Trigonometry

5 points

A tree casts a 12 meter shadow when the angle of elevation of the sun is 25° . How tall is the tree?

A 3 m ladder rests against a vertical wall so that the distance between the base of the ladder and the bottom of the wall is 0.8 m.

a. Find the angle that the ladder makes with the wall.

b. Find the height above the ground where the ladder meets the wall.

Pierre is standing on the viewing deck of the Eiffel Tower, 300 m above the ground. He looks down with an angle of depression of 40° , to see Alain, at point A. He looks down a further 32° to see Bailee at point B. What is the distance from Alain to Bailee?

