- 1. A ladder, leaning against a wall, makes an angle of 60° with the horizontal. If the foot of the ladder is 2.5m away from the wall, find the length of the ladder.
- 2. As observed from the top of a light house, 100m high above sea level, the angles of depression of a ship sailing directly towards it, change s from 30° to 60° . Find the distance travelled by the ship during the period of observation. (Use $\sqrt{3} = 1.73$).