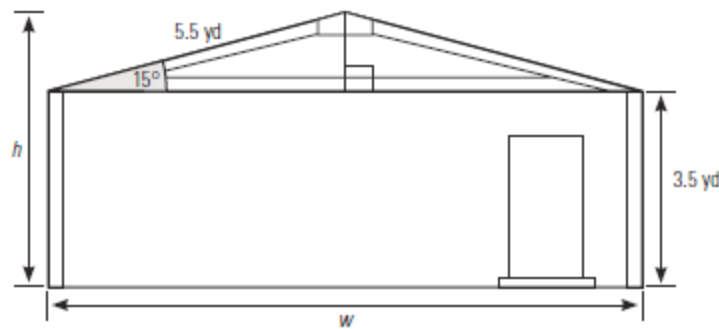


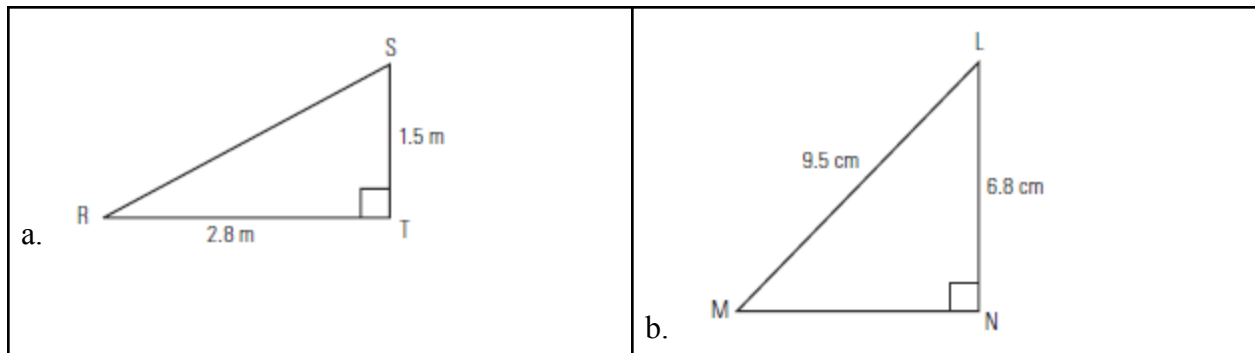
Unit 5 - WA10.8 - Trigonometry Practice Questions #4

Be sure to input your answers here to receive credit: <https://bit.ly/3wJtlT>

- Calculate the angle to the nearest degree.
 - $\sin D = 0.5491$
 - $\cos F = 0.8964$
 - $\tan G = 2.3548$
 - $\sin H = 0.9998$
- What is the angle of depression from the top of a 65-metre cliff to an object 54 metres from its base?
- At what angle to the ground must you place a support if it is 7.2 metres long and must reach 4.2 metres up the side of a tower?
- At what angle to the ground is an 9-metre long conveyor belt if it is fastened 5 metres from the base of a loading ramp?
- The two equal angles of an isosceles triangle are each 70° . Determine the measures of other side legs if it has a height of 22 cm.
- The length of the rafter is 5.5 yards, and the side height of the building is 3.5 yards. Determine the width of the building and its total height.



- Solve the following triangles.



- What height is a pole, and how far away from it is a cable attached to the ground, if the angle of elevation is 25° and the cable is 21 m long?
- What is the angle of elevation if a ramp with a height of 1 metre and a horizontal length of 3 metres?
- A grain auger is 31 feet long. The largest angle of elevation at which it can safely be used is 75° . What is the maximum height to which it can reach and how far from the base of the granary will it be, assuming that it dumps right at the edge?
- Maura's driveway has an angle of depression of 40° from the flat roadway. If it levels off to the garage floor, which is 4 metres below the roadway, how long is the driveway and how far into the lot is the garage entrance?