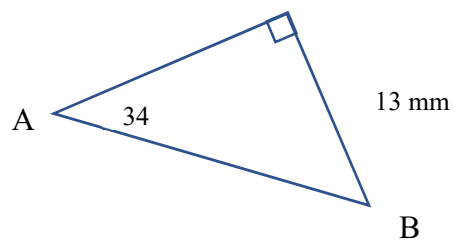
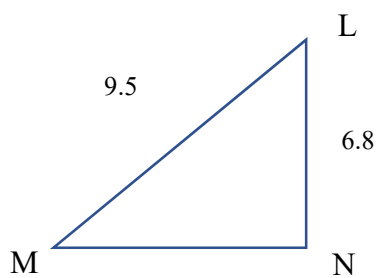
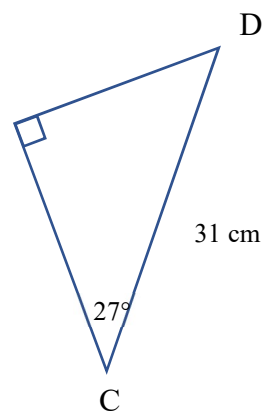
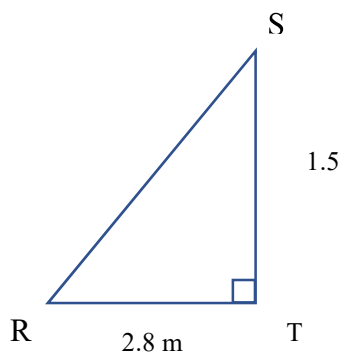


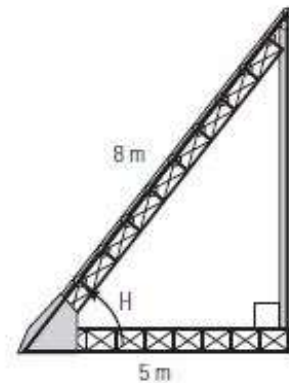
0.6 Solving Right Triangle Practice

Show all work. Round lengths to the nearest hundredth and angles to the nearest degree.

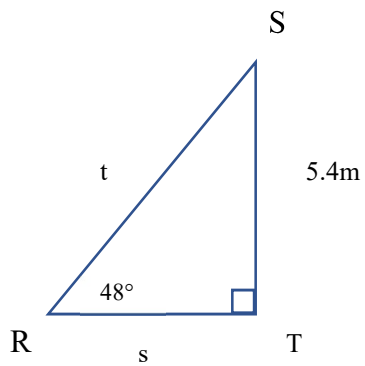
1. Solve the following triangles. (means find all angles and sides)



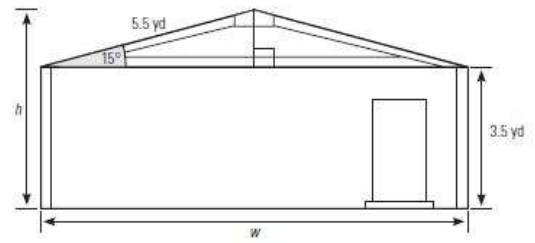
2. What is the angle of depression from the top of a 65-metre cliff to an object 48 metres from its base?
3. At what angle to the ground must you place a support if a wire is 6.8 metres long and must reach 4.2 metres up the side of a tower?
4. What is the angle of elevation if a ramp with a height of 1 metre and a horizontal length of 3 metres?
5. At what angle to the ground is an 8-metre long conveyor belt if it is fastened 5 metres from the base of a loading ramp?



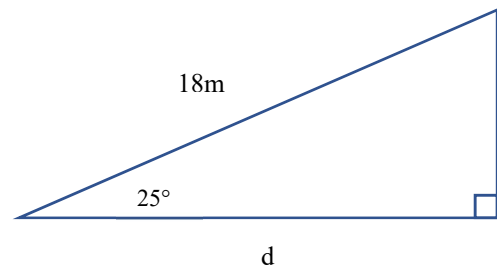
6. Solve the given triangle without using the Pythagorean theorem.



7. The length of a 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.



8. 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 18 m long?



9. Find the values of a , b , c , and d .

