# Trigonometry Review – Chapter 3
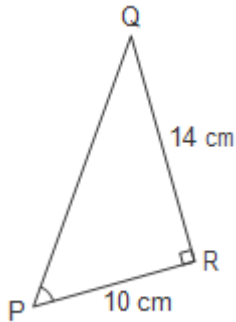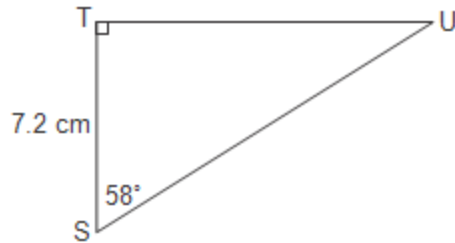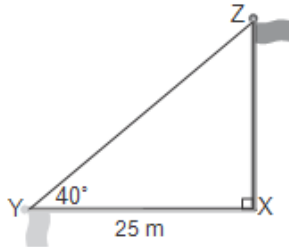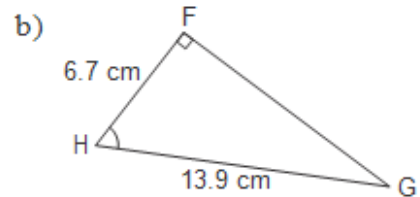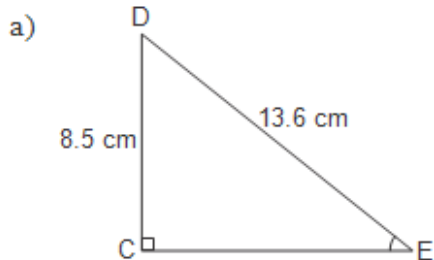
1. Find the measure of LP to the nearest degree.



2. Find the length of TU to the nearest tenth of a centimeter.

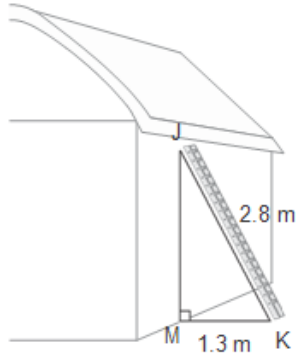

3. A flagpole casts a shadow that is 25 m long when the angle between the sun's rays and the ground is 40°. What is the height of the flagpole to the nearest metre?



4. Find the measure of each indicated angle to the nearest degree.
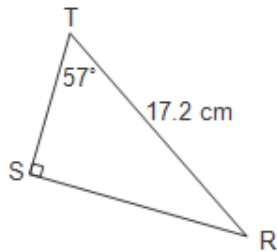
a)



b)

5. A 2.8-m ladder is leaning against a barn, as shown.
   What angle does the ladder make with the barn? Give your answer to the nearest degree.
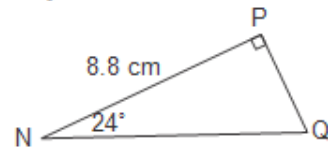


6. Find the length of each indicated side to the nearest tenth of a centimeter.
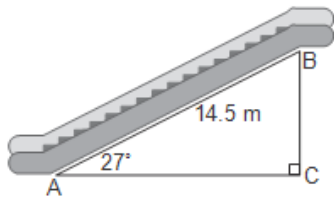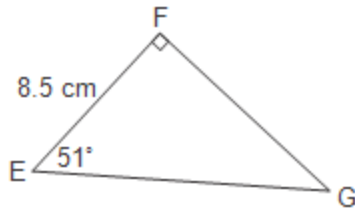
   a) RS



   b) NQ



7. An escalator is 14.5 m long. The escalator makes an angle of 27° with the ground. What is the height of the escalator? Give your answer to the nearest tenth of a metre.



8. Solve the following the triangle. Give the side lengths to the nearest tenth of a centimeter and the angles to the nearest degree.

9. Two buildings are 25 m apart.  From the top of the shorter building, the angles of elevation and depression  of the top and bottom of the taller building are 31° and 48° respectively. What is the height  of the taller building? Give your answer  to the nearest metre.
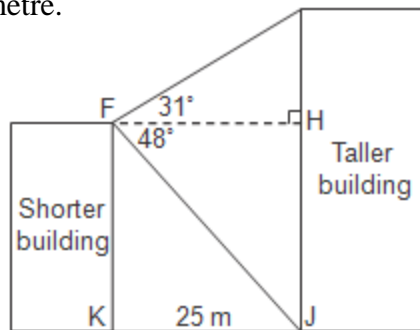


**Chapter 2 Review**
1. 54°
2. 11.5 cm
3. 21 m
4. a) 39°          b) 61°
5. 28°
6. a) 14.4 cm          b) 9.6 cm
7. 6.6 m
8. ∠G = 39°; FG ≈ 10.5 cm; EG ≈ 13.5 cm
9. 43 m