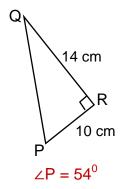
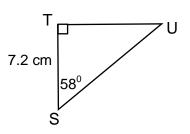
Math 1201: ANSWERS

Find the measure of ∠P to the nearest degree.



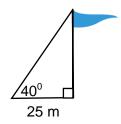
Chapter 2: Trigonometry Review Sheet

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



TU = 11.5 cm

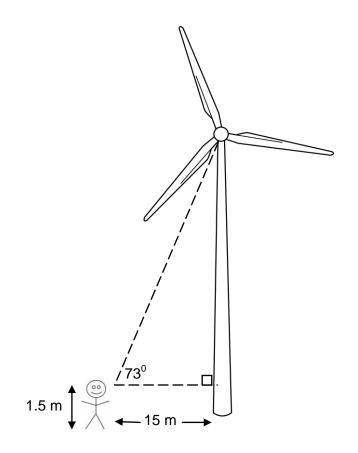
3. A flagpole casts a shadow that is 25 m long when the angle between the sun's rays and the ground is 40°. What is the length of the flagpole to the nearest meter?



Flagpole = 21 m

4. Use the information in the diagram to find the height of the tower of the wind turbine. Give the answer to the nearest tenth of a meter.

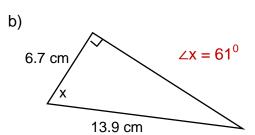
Tower = 50.6 m



5. Find the measure of each indicated angle to the nearest degree.

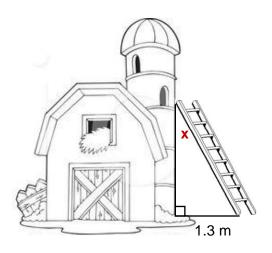
a) 8.5 cm

$$\angle x = 39^{0}$$



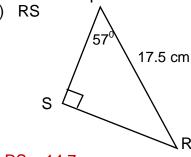
6. A 2.8m ladder is leaning against a barn. What angle does the ladder make with the barn, to the nearest degree?

$$\angle x = 28^{0}$$

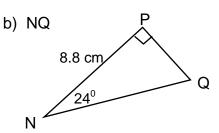


7. Find the length of each indicated side to the nearest tenth of a centimeter.

a) RS

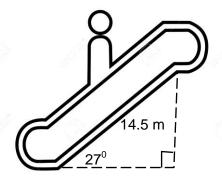


$$RS = 14.7 cm$$

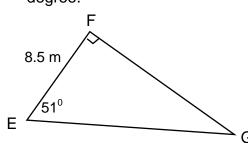


$$NQ = 9.6 \text{ cm}$$

8. An escalator is 14.5m long. The escalator makes an angle of 270 with the ground. What is the height of the escalator to the nearest tenth of a meter?



9. Solve the triangle. Give side lengths to the nearest tenth and angles to the nearest degree.

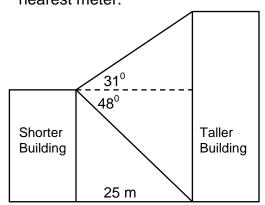


$$\angle G = 39^0$$

$$FG = 10.5 cm$$

$$EG = 13.5 cm$$

10. 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 31⁰ and 48⁰ respectively. What is the height of the taller building? Give your answer to the nearest meter.



Height of Tall building = 43 m