Apprenticeship Math 12
ASSIGNMENT: Tangent Ratio

Name: _____

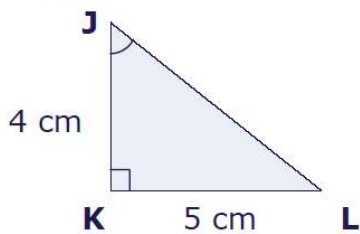Date: _____

Calculate the tangent of the following angles to two decimal places.

1. tan 10°

2. tan 73°

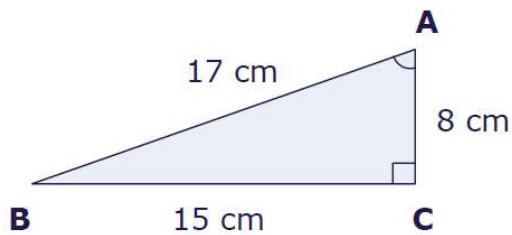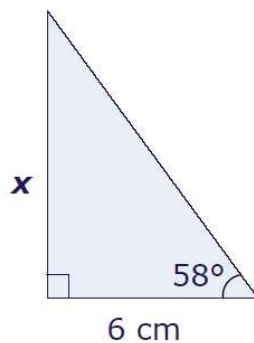Find ∠ **C** to the nearest degree.

3. tan C = 0.439

4. tan C = 2.156

5. Using the following triangle, calculate tan **J** to two decimal places.

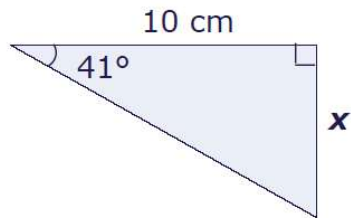6. Calculate ∠ **A** and tan **A** for the following triangle. Round the angle measurement to the nearest degree and calculate the tan to two decimal places.

7. Find the measurement of the missing side of the triangle to the nearest tenth of a metre.

8. Find the measurement of the missing side of the triangle to the nearest tenth of a metre.

10 cm

41°

x

9. In a right triangle, the side opposite a 17° angle is 2.7 cm long. What is the length of the side adjacent to the 17° angle? Round your answer to the nearest tenth?

10. There is a bike ramp at the park. The incline of the ramp is 49°. The height of the ramp is 1.2 m. What horizontal distance will Colin travel as he rides down the ramp? How long is the surface of the ramp (x)?

1.2 m

x

49°
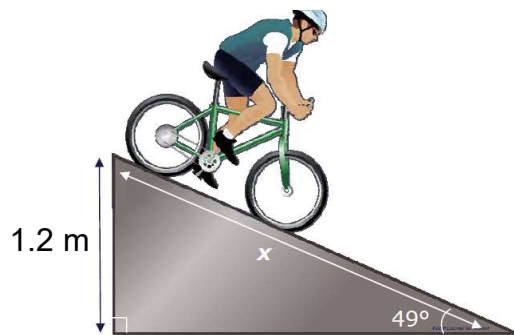
1. 0.18
2. 3.27
3. 24°
4. 65°
5. 1.25
6. tan A = 1.88
   ∠A = 62°
7. 9.6 cm
8. 8.7 cm
9. 8.8 cm
10. 1.0 m
    x = 1.6 m