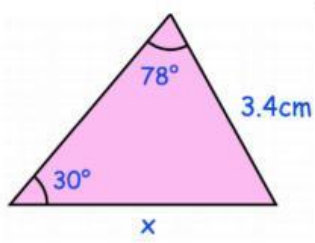
ID: A

Warming Up Activity: Solving trigonometry problem and sines rules

Multiple Choice

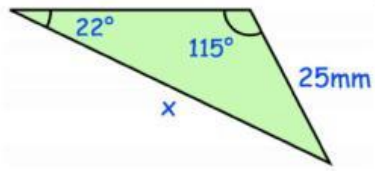
Identify the choice that best completes the statement or answers the question.

1. **Find the missing side lenght x.**



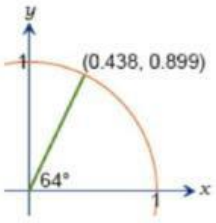
a. 6.65 cm
b. 5.66 cm
c. 1.74 cm
d. 7.14 cm

2. **Find the missing side lenght x.**



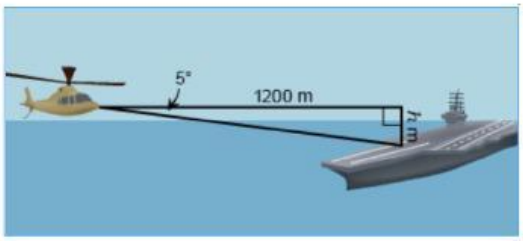
a. 60.5 mm
b. 30.1 mm
c. 10.3 mm
d. 58.1 mm

3. The diagram shows the coordinates of the point on the unit circle correct to three decimal places. **From the diagram, what is sin 64 ^{0}?**



a. 0.438
b. 0.899
c. 1
d. -1

4. A helicopter rose h m from the deck of an aircraft carrier and travelled 1200 m in a straight line. The angle of depression of the ship from the helicopter was then 5°.

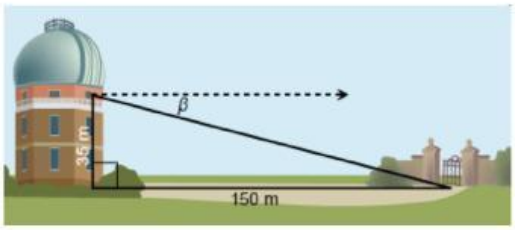


Calculate h, the height risen, to the nearest metre.

(You are allowed to use calculator to solve this question)

a. 105
b. 104
c. 100
d. 94

5. An observatory window is 35 m above the ground. The front gate of a property can be seen through the window and is 150 m away along the flat path. **Calculate the angle of depression from the observatory to the gate to the nearest degree.**



(You are allowed to use calculator to solve this question)

a. 13 ^{o}
b. 14 ^{o}
c. 76 ^{o}
d. 77 ^{o}

LIVEWORKSHEETS