Name: _____ Class: _____ Date: _____ ID: A

G10. Warming Up Activity 6

Multiple Choice

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

1. **Given that** $\cos\theta = \frac{1}{7}$ **and** θ **is acute, find the exact value of tan** θ**.**

   a. $\frac{1}{4\sqrt{3}}$

   b. 7

   c. $4\sqrt{3}$

   d. $\frac{4\sqrt{3}}{7}$

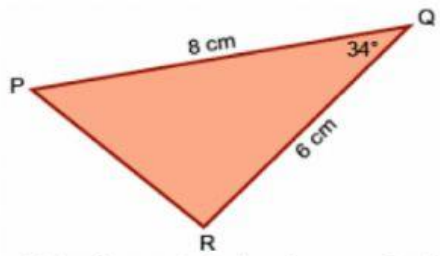
2. Given that $\tan A = \frac{4}{3}$, where A is in the third quadrant. What is **the value** of $\sin A$?

   a. $\frac{4}{5}$

   b. $-\frac{4}{5}$

   c. $-\frac{3}{5}$

   d. $\frac{3}{5}$

3. 

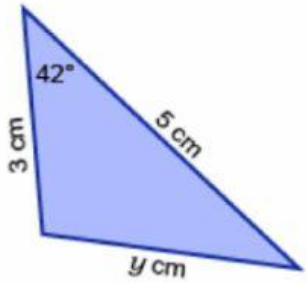
   Which of these substitutions is correct for this triangle?

   a. $PR^2 = 8 + 6 - 2 \times 8^2 \times 6^2 \times \cos 34°$

   b. $PR^2 = 8 + 6 - 8^2 \times 6^2 \times \cos 34°$

   c. $PR^2 = 8^2 + 6^2 - 8 \times 6 \times \cos 34°$

   d. $PR^2 = 8^2 + 6^2 - 2 \times 8 \times 6 \times \cos 34°$

4. 

   Determine the value of y correct to **one decimal place**.

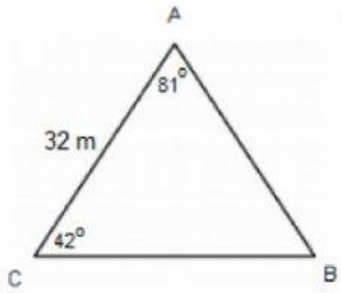
   a. 2.5 cm

   b. 7.3 cm

   c. 4.6 cm

   d. 3.4 cm

5. In $\triangle ABC$, $A = 81^o$, $C = 42^o$, and side $AC = 32$ m. **Find the length of BC.** (correct to the nearest meter)



   a. 22 m

   b. 27 m

   c. 38 m

   d. 47 m

LIVEWORKSHEETS