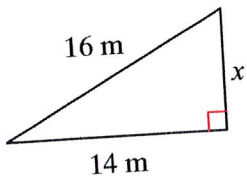


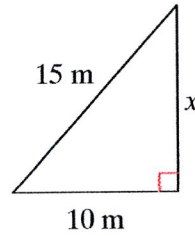
Name _____

Sem 2 TH #5

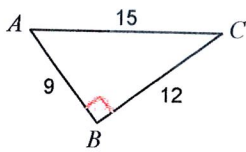
1. Solve using the Pythagorean theorem
*leave your answer as a simplified radical



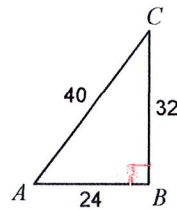
2. Solve using the Pythagorean theorem
*leave your answer as a simplified radical



3. Find the ratio for the $\cos A$ _____

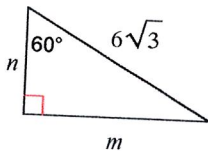


4. Find the ratio for the $\tan C$ _____



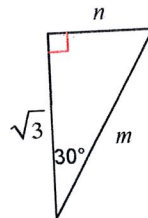
5. Special Right Triangles

$m =$ _____ $n =$ _____

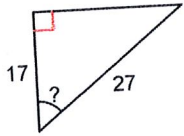


6. Special Right Triangles

$m =$ _____ $n =$ _____



7. Solve for the missing angle



8. Solve for the missing angle A:

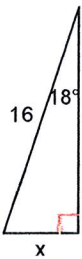
Hint: $\cos C = 0.8746$

$\cos^{-1}(\cos C) = \cos^{-1}(0.8746)$

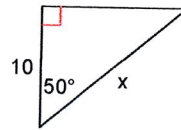
$C = 29^\circ$

$\tan A = 0.6249$

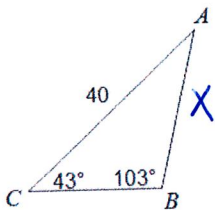
9. Use SohCahToa to find the missing side



10. Use SohCahToa to find the missing side



11. Solve using the law of sines: $\frac{a}{\sin A} = \frac{b}{\sin B}$



12. Solve using the law of cosines:

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

