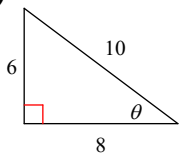


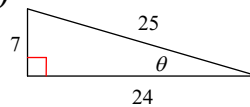
# 6-1 Solving Right Triangles

**(6-1a) Write the specified trig ratio given a right triangle.**

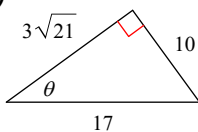
1)  $\cos \theta$



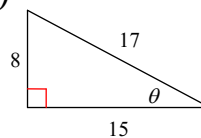
2)  $\sec \theta$



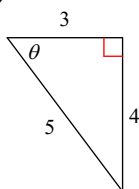
3)  $\sin \theta$



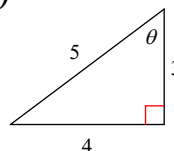
4)  $\csc \theta$



5)  $\tan \theta$

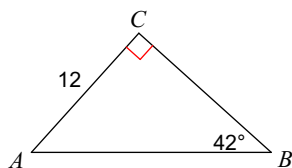


6)  $\cot \theta$

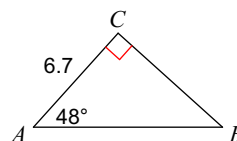


**(6-1b) Solve each triangle. Round answers to the nearest tenth.**

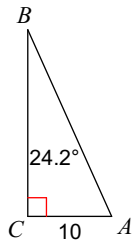
7)



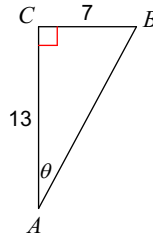
8)



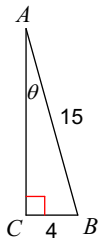
9)



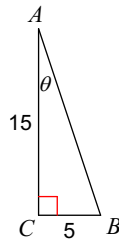
10)



11)



12)



**(5-3a) Solve each equation. Round your answers to the nearest tenth. Do NOT use a calculator for #13-15, but you may use a calculator for #16.**

13)  $2 \cdot 10^{x-6} = 20$

14)  $5^{r+5} - 8 = 17$

15)  $5 \log_4 (x + 5) = 10$

16)  $4 + \log_{12} 10x = 6$