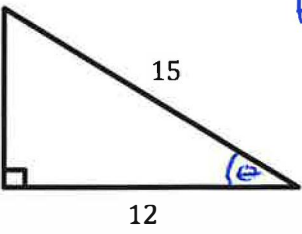
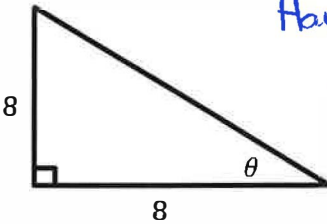
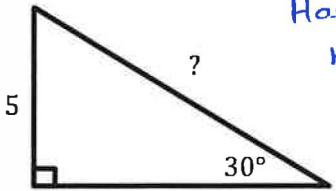
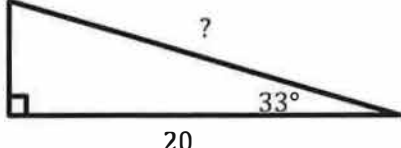


Name: **KEY**

Section 6.1b – Solving Right Angle

Triangles Solve for the missing information

Solve for the angle theta. Round to the nearest tenth of a degree if necessary.	
 <p style="text-align: right; margin-right: 20px;">Have AH so cosine</p> $\cos \theta = \frac{12}{15}$ $\theta = \cos^{-1}\left(\frac{12}{15}\right)$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $\theta = 36.9^\circ$ </div>	 <p style="text-align: right; margin-right: 20px;">Have OA so Tan</p> $\tan \theta = \frac{8}{8}$ $\theta = \tan^{-1}(1)$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $\theta = 45^\circ$ </div>
Solve for the designated missing side. Round to the nearest tenth if necessary.	
 <p style="text-align: right; margin-right: 20px;">Have O need H so SOH</p> $\sin 30^\circ = \frac{5}{x}$ $x = \frac{5}{\sin 30}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $x = 10$ </div>	 <p style="text-align: right; margin-right: 20px;">Have A need H CAH</p> $\cos 33 = \frac{20}{x}$ $x = \frac{20}{\cos 33}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> $x = 23.8$ </div>