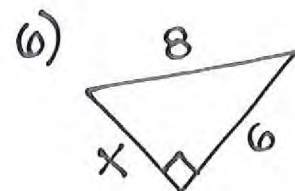
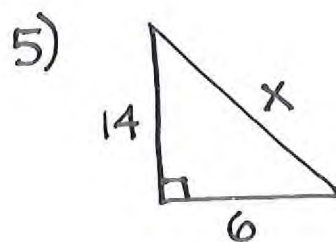
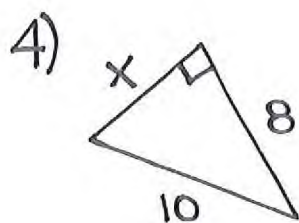
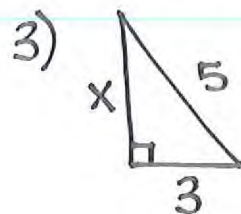
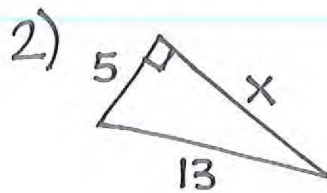
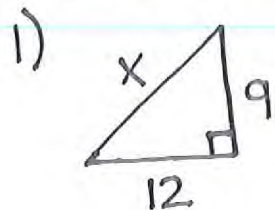


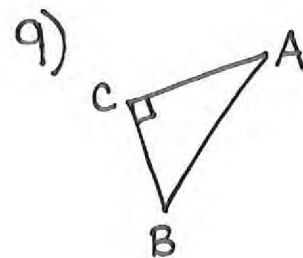
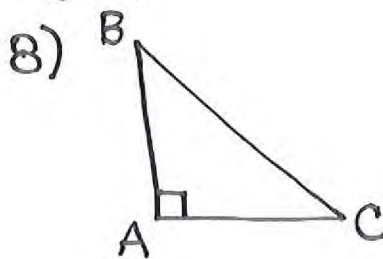
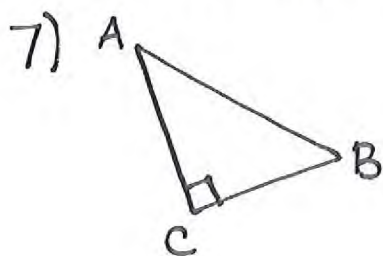
Right Triangle Practice

Name _____ #3

Find the missing side of each triangle. Round your answers to the nearest tenth if necessary. Show work!

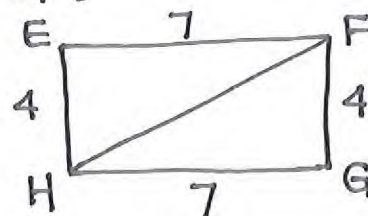


Label each side of the triangle as the hypotenuse, opposite side, or side adjacent to $\angle B$. (Label each side as opp, adj, or hyp.)



10) How long is a string reaching from the top of a 13-ft pole to a point on the ground that is 7 ft from the base of the pole?

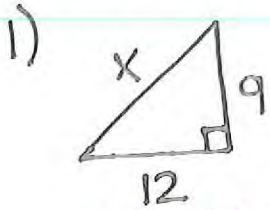
11) If EFGH is a rectangle, what is FH?



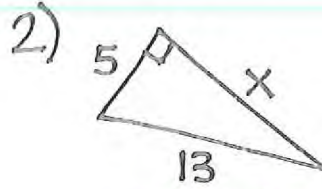
Right Triangle Practice

Name Key #3

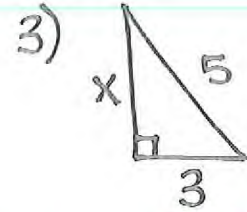
Find the missing side of each triangle. Round your answers to the nearest tenth if necessary. Show work!



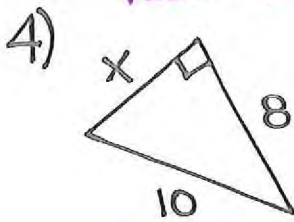
$$\begin{aligned} 9^2 + 12^2 &= x^2 \\ 81 + 144 &= x^2 \\ 225 &= x^2 \\ \sqrt{225} &= \sqrt{x^2} \\ \mathbf{15 = x} \end{aligned}$$



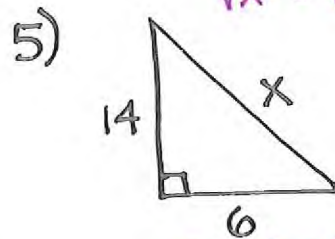
$$\begin{aligned} x^2 + 5^2 &= 13^2 \\ x^2 + 25 &= 169 \\ -25 \quad -25 & \\ x^2 &= 144 \\ \sqrt{x^2} &= \sqrt{144} \\ \mathbf{x = 12} \end{aligned}$$



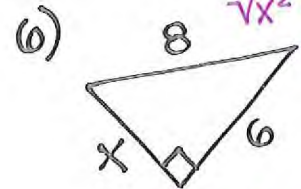
$$\begin{aligned} x^2 + 3^2 &= 5^2 \\ x^2 + 9 &= 25 \\ -9 \quad -9 & \\ x^2 &= 16 \\ \sqrt{x^2} &= \sqrt{16} \\ \mathbf{x = 4} \end{aligned}$$



$$\begin{aligned} x^2 + 8^2 &= 10^2 \\ x^2 + 64 &= 100 \\ -64 \quad -64 & \\ x^2 &= 36 \\ \sqrt{x^2} &= \sqrt{36} \\ \mathbf{x = 6} \end{aligned}$$

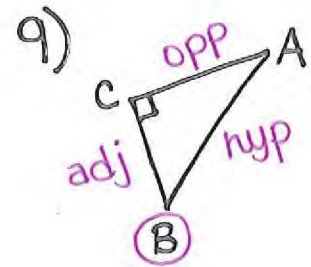
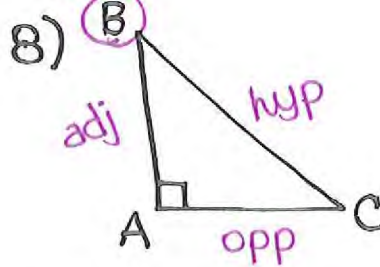
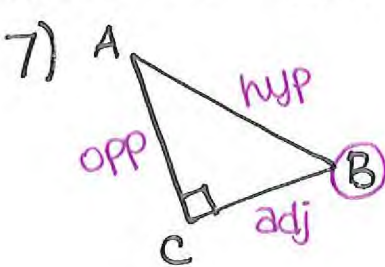


$$\begin{aligned} 14^2 + 6^2 &= x^2 \\ 196 + 36 &= x^2 \\ 232 &= x^2 \\ \sqrt{232} &= \sqrt{x^2} \\ \mathbf{15.2 = x} \end{aligned}$$

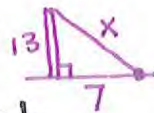


$$\begin{aligned} x^2 + 6^2 &= 8^2 \\ x^2 + 36 &= 64 \\ -36 \quad -36 & \\ x^2 &= 28 \\ \sqrt{x^2} &= \sqrt{28} \\ \mathbf{x = 5.3} \end{aligned}$$

Label each side of the triangle as the hypotenuse, opposite side, or side adjacent to $\angle B$. (Label each side as opp, adj, or hyp.)

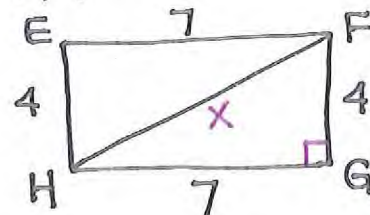


10) How long is a string reaching from the top of a 13-ft pole to a point on the ground that is 7 ft from the base of the pole?



$$\begin{aligned} 13^2 + 7^2 &= x^2 \\ 169 + 49 &= x^2 \\ 218 &= x^2 \\ \sqrt{218} &= \sqrt{x^2} \\ \mathbf{14.8 = x} \end{aligned}$$

11) If EFGH is a rectangle, what is FH?



$$\begin{aligned} 4^2 + 7^2 &= x^2 \\ 16 + 49 &= x^2 \\ 65 &= x^2 \\ \sqrt{65} &= \sqrt{x^2} \\ \mathbf{8.1 = x} \end{aligned}$$