

1.1 Pythagorean Review

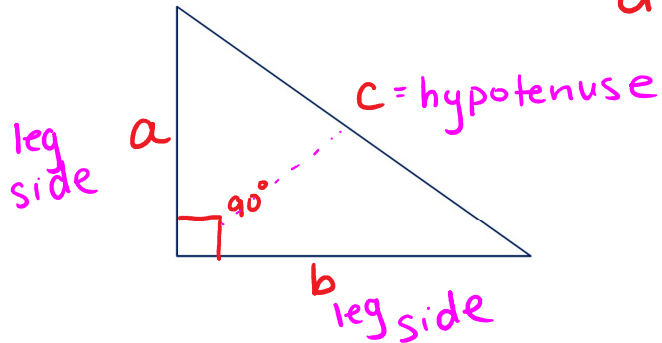
Monday, June 6, 2022 11:20 AM

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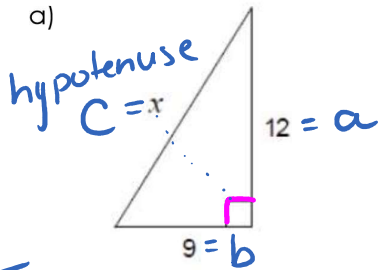
Pythagorean Theorem Review

$$a^2 + b^2 = c^2$$



Example: Find the length of each indicated side to the nearest tenth.

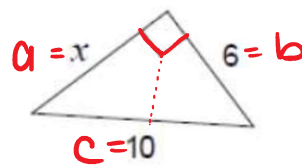
a)



$$\begin{aligned} a^2 + b^2 &= c^2 \\ 12^2 + 9^2 &= c^2 \\ 144 + 81 &= c^2 \\ 225 &= c^2 \\ \sqrt{225} &= c \\ 15 &= c \end{aligned}$$

$$\begin{array}{r} 144 \\ + 81 \\ \hline 225 \end{array}$$

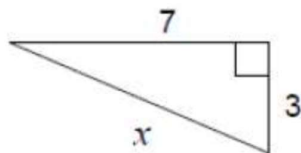
b)



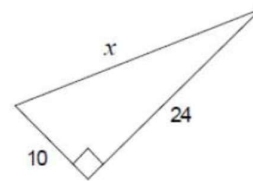
$$\begin{aligned} a^2 + b^2 &= c^2 \\ x^2 + 6^2 &= 10^2 \\ x^2 + 36 &= 100 \\ -36 & \quad -36 \\ x^2 &= 64 \\ x &= 8 \end{aligned}$$

1. Find the length of each indicated side to the nearest tenth.

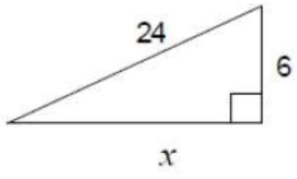
a)



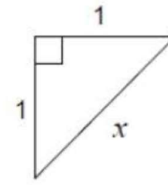
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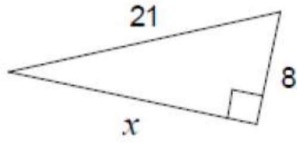
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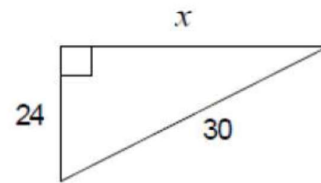
d)



e)



f)



g)

