

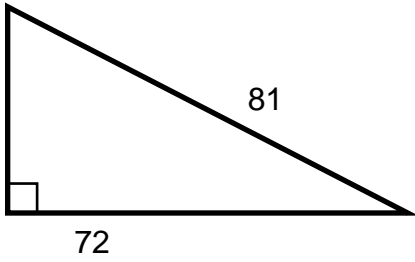
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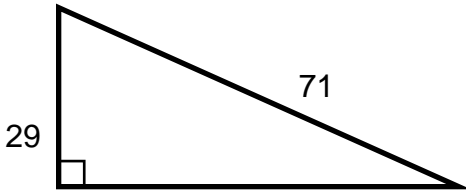
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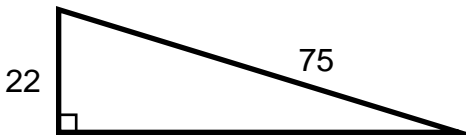
Teacher : _____

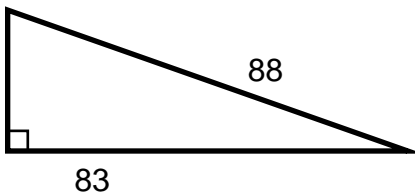
Date : _____

Find the length of the third side of each triangle.











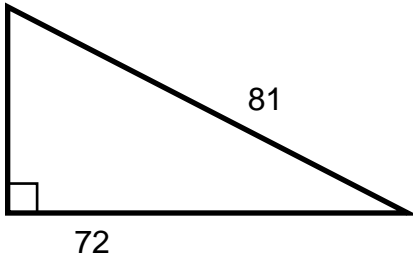
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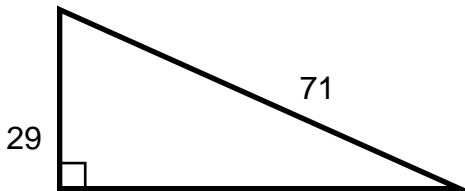
Teacher : _____

Date : _____

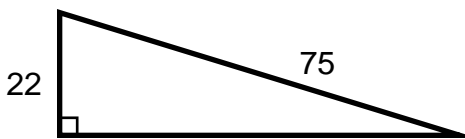
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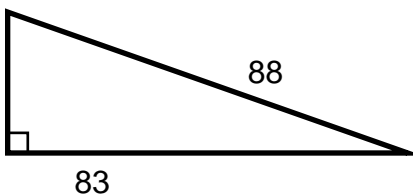
$$\begin{aligned} a^2 + 72^2 &= 81^2 \\ a^2 + 5184 &= 6561 \\ a^2 &= 6561 - 5184 \\ a^2 &= 1377 \\ a &= \sqrt{1377} \\ a &\approx 37.108 \end{aligned}$$



$$\begin{aligned} 29^2 + b^2 &= 71^2 \\ 841 + b^2 &= 5041 \\ b^2 &= 5041 - 841 \\ b^2 &= 4200 \\ b &= \sqrt{4200} \\ b &\approx 64.8074 \end{aligned}$$



$$\begin{aligned} 22^2 + b^2 &= 75^2 \\ 484 + b^2 &= 5625 \\ b^2 &= 5625 - 484 \\ b^2 &= 5141 \\ b &= \sqrt{5141} \\ b &\approx 71.7008 \end{aligned}$$



$$\begin{aligned} a^2 + 83^2 &= 88^2 \\ a^2 + 6889 &= 7744 \\ a^2 &= 7744 - 6889 \\ a^2 &= 855 \\ a &= \sqrt{855} \\ a &\approx 29.2404 \end{aligned}$$

