

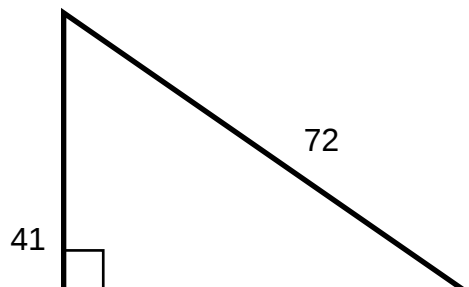
Name : _____

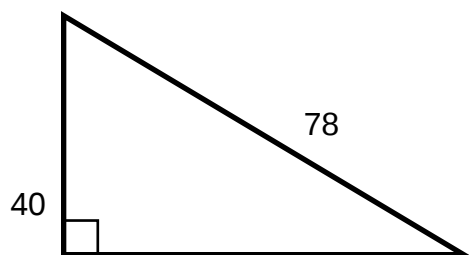
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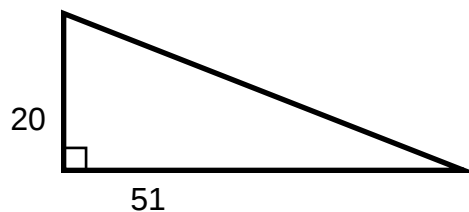
Teacher : _____

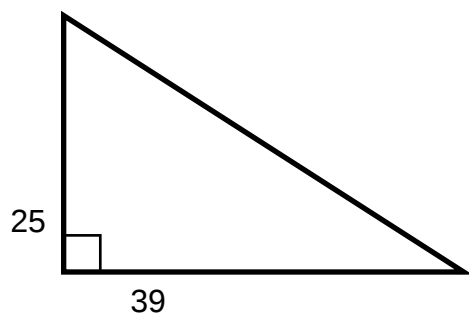
Date : _____

Find the length of the third side of each triangle.









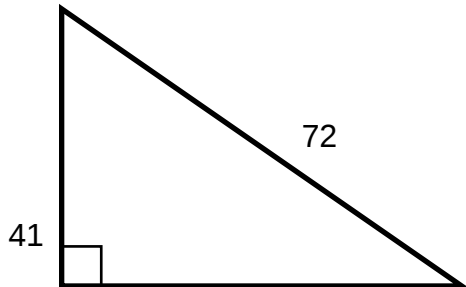


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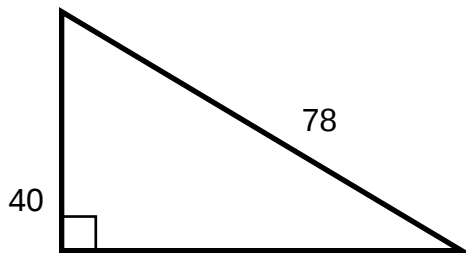
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Teacher : _____

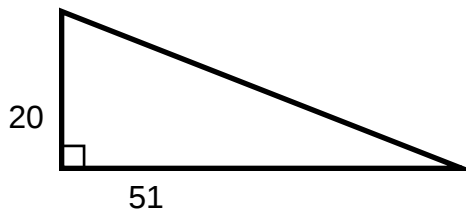
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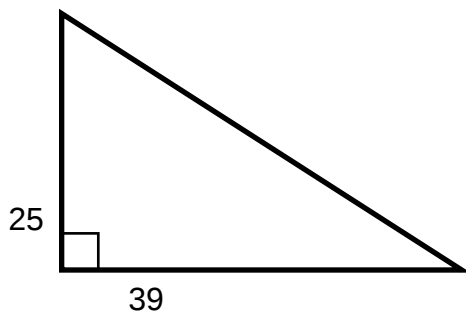
$$\begin{aligned}
 41^2 + b^2 &= 72^2 \\
 1681 + b^2 &= 5184 \\
 b^2 &= 5184 - 1681 \\
 b^2 &= 3503 \\
 b &= \sqrt{3503} \\
 b &\approx 59.1861
 \end{aligned}$$



$$\begin{aligned}
 40^2 + b^2 &= 78^2 \\
 1600 + b^2 &= 6084 \\
 b^2 &= 6084 - 1600 \\
 b^2 &= 4484 \\
 b &= \sqrt{4484} \\
 b &\approx 66.9627
 \end{aligned}$$



$$\begin{aligned}
 20^2 + 51^2 &= c^2 \\
 400 + 2601 &= c^2 \\
 3001 &= c^2 \\
 \sqrt{3001} &= c \\
 54.7814 &\approx c
 \end{aligned}$$



$$\begin{aligned}
 25^2 + 39^2 &= c^2 \\
 625 + 1521 &= c^2 \\
 2146 &= c^2 \\
 \sqrt{2146} &= c \\
 46.3249 &\approx c
 \end{aligned}$$

