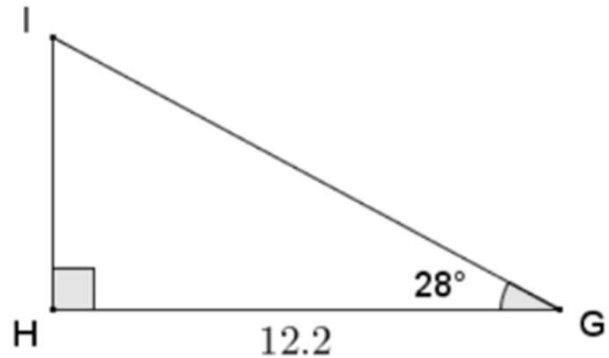


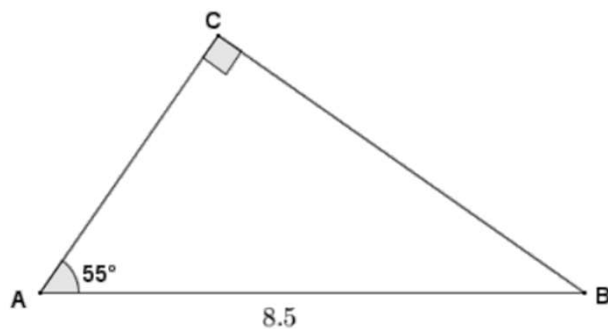
Trigonometry Worksheets

Find the missing side length of a right triangle

Given right triangle GHI, with right angle at H, $GH = 12.2$, and $m\angle G = 28^\circ$, find the measures of the remaining sides and angle to the nearest tenth



Given right triangle ABC with hypotenuse $AB = 8.5$ and $m\angle A = 55^\circ$, find AC and BC to the nearest hundredth.



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Given right triangle GHI, with right angle at H, $GH = 12.2$, and $m\angle G = 28^\circ$, find the measures of the remaining sides and angle to the nearest tenth.

$$\cos 28 = \frac{12.2}{GI}$$

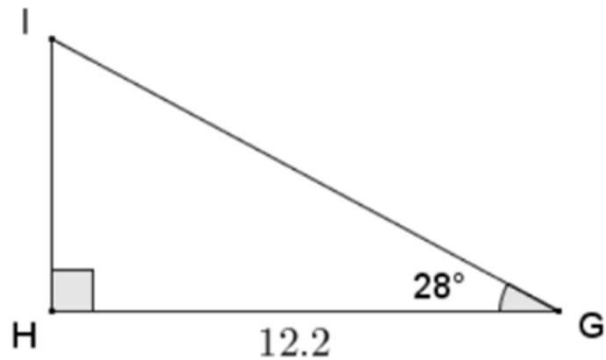
$$GI = \frac{12.2}{\cos 28}$$

$$GI \approx 13.8$$

$$\tan 28 = \frac{IH}{12.2}$$

$$IH = 12.2 \tan 28$$

$$IH \approx 6.5$$



Given right triangle ABC with hypotenuse $AB = 8.5$ and $m\angle A = 55^\circ$, find AC and BC to the nearest hundredth.

$$BC = 8.5(\sin 55)$$

$$BC \approx 6.96$$

$$AC = 8.5(\cos 55)$$

$$AC \approx 4.88$$

