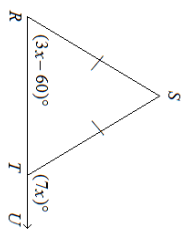
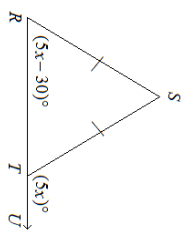


Find the value of x . The diagram is not to scale.



Find the value of x . The diagram is not to scale.



Two trees are growing in a clearing. The first tree is 18 feet tall and casts a 10 foot shadow. The second tree casts a 15 foot shadow. How tall is the second tree to the nearest tenth of a foot?

Two trees are growing in a clearing. The first tree is 8 feet tall and casts a 5 foot shadow. The second tree casts a 19 foot shadow. How tall is the second tree to the nearest tenth of a foot?

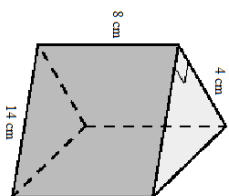
If $\triangle STU \cong \triangle KLM$, which of the following can you NOT conclude as being true?

- a. $\angle T \cong \angle L$ b. $\overline{TU} \cong \overline{LM}$ c. $\overline{ST} \cong \overline{KM}$ d. $\angle S \cong \angle K$

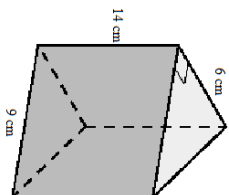
If $\triangle ABC \cong \triangle XYZ$, which of the following can you NOT conclude as being true?

- a. $\angle B \cong \angle Y$ b. $\angle A \cong \angle X$ c. $\overline{BC} \cong \overline{YZ}$ d. $\overline{AB} \cong \overline{XZ}$

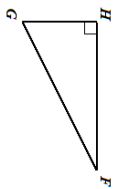
Find the volume of the prism.



Find the volume of the prism.

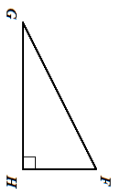


In $\triangle FGH$, $GH = 1$, $FH = 9$, and $FG = \sqrt{82}$. Which statements are true?



- a. $\tan F = 9.0000$
- b. $\tan F \approx 0.1111$
- c. $\tan G \approx 0.1111$
- d. $\tan G = 9.0000$

In $\triangle FGH$, $FH = 4$, $GH = 12$, and $FG = 4\sqrt{10}$. Which statements are true?



- a. $\tan G \approx 0.3333$
- b. $\tan F = 3.0000$
- c. $\tan G = 3.0000$
- d. $\tan F \approx 0.3333$