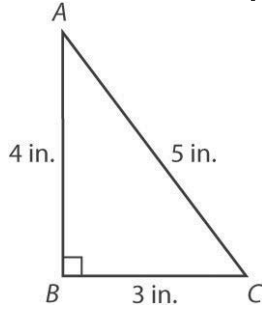


Module 13/14 Review

Use triangle ABC to answer questions 1-2



1. Which side is opposite $\angle A$

2. What is $\tan C$?

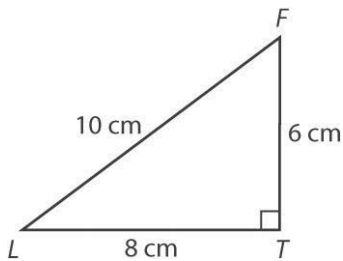
A. $\frac{5}{3}$

C. $\frac{3}{4}$

C. $\frac{4}{3}$

D. $\frac{3}{5}$

Use triangle LTF to answer questions 3–7.



3. What is $\sin F$?

4. What is $\cos F$?

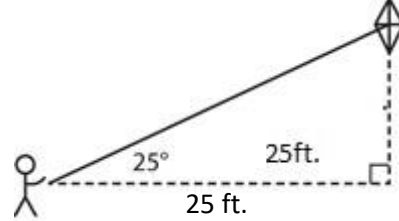
5. What is $\tan F$?

6. What is the measure of angle L , to the nearest degree?

7. How else could you find angle L ?

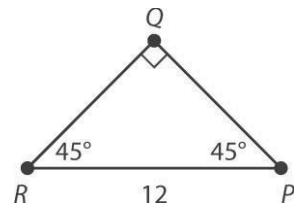
Name _____

8. Raul is standing 25 feet away from the bottom of the kite. Raul is holding the string 3 feet off the ground at the angle to the horizontal as shown.



How high is the kite off the ground? Round your answer to the nearest tenth. Explain your reasoning.

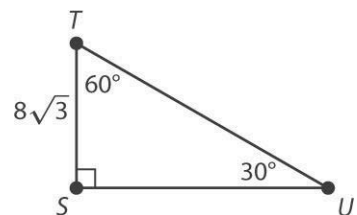
$\triangle PQR$ is shown.



9. What are the missing side lengths in $\triangle PQR$? Leave your answers in simplest radical form (no decimals).

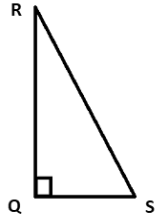
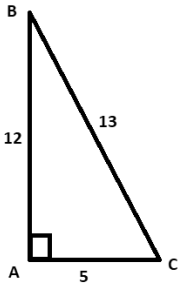
10. Given that $\cos 42^\circ \approx 0.743$, what is the sine of the complementary angle?

$\triangle TSU$ is shown.



11. What are the missing side lengths in $\triangle TSU$? Explain. Keep your answer in simplest radical form.

Use the figures for 12-14.



12. Fill in the missing side lengths for each trigonometric ratio.

$\sin C = \text{---}$ $\sin B = \text{---}$ $\cos C = \text{---}$

$\cos B = \text{---}$ $\tan C = \text{---}$ $\tan B = \text{---}$

13. Triangle ABC is similar to triangle QRS. Select all angles whose cosine equals $\frac{12}{13}$.

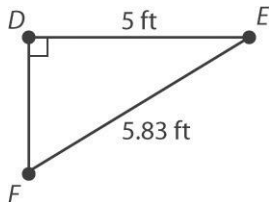
14. How are the sine, cosine, and tangent related in triangles ABC and QRS? Fill in the blanks with $>$, $<$, or $=$.

a. $\sin C$ --- $\sin S$

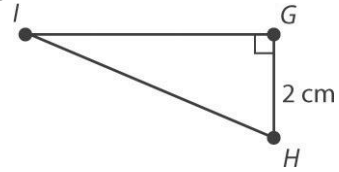
b. $\cos B$ --- $\sin R$

c. $\tan C$ --- $\tan S$

15. Solve the triangle by finding the lengths of all the sides and the measures of all the angles. Show your reasoning.

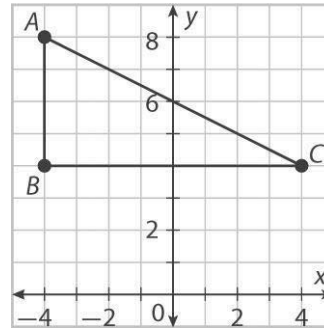


A right triangle is shown.



16. If $m\angle H = 68^\circ$, find GI .

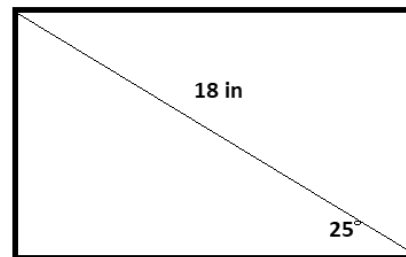
Use the figure for 17-18.



17. $\angle B$ is a right angle. What is AC in simplest radical form?

18. What is $m\angle A$?

19. What are the horizontal and vertical lengths of the rectangle shown?



20. What is the area of $\triangle ABC$?

