

2023-2024

Name _____ Date _____ Period _____

Simplify.

1. $\sqrt{30} \cdot \sqrt{30}$

2. $4\sqrt{15} \cdot 2\sqrt{15}$

3. $\sqrt{2} \cdot \sqrt{12}$

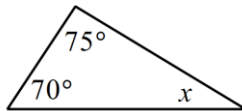
4. $\frac{3\sqrt{4}}{4\sqrt{5}}$

5. $\frac{2}{\sqrt{2}}$

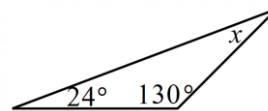
6. $\frac{1}{\sqrt{3}}$

Find the measure of each angle indicated. Show work.

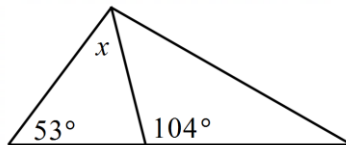
7.



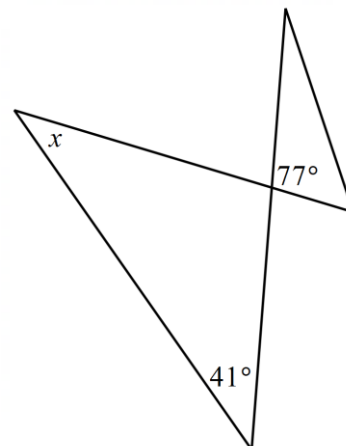
8.



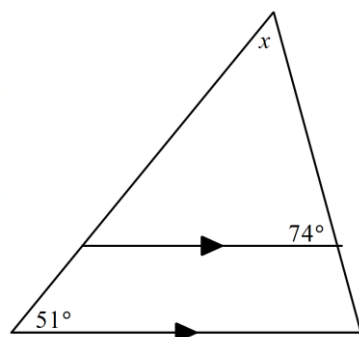
9.



10.

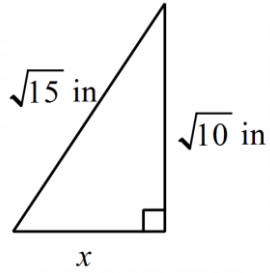


11.

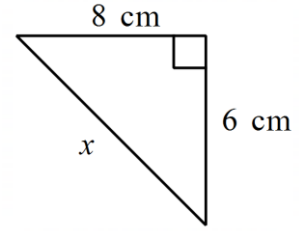


Find the missing side of each triangle. Leave your answer in simplest radical form when necessary. Otherwise, round to the nearest hundredth. Be sure to label your answer.

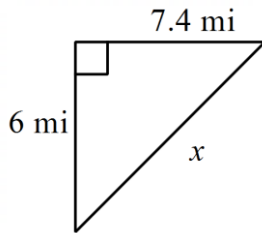
12.



13.



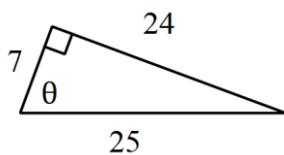
14.



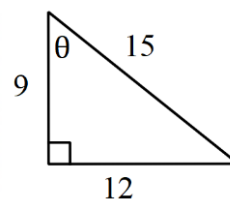
15. $a = \sqrt{6}$ in, $c = 2\sqrt{3}$ in

Find the value of the trig function indicated. Leave as a ratio in simplest form.

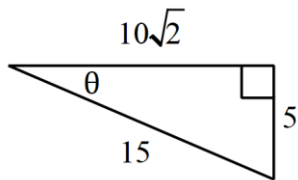
16. $\tan \theta =$ _____



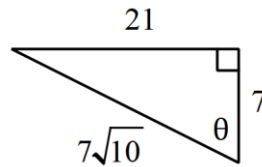
17. $\sin \theta =$ _____



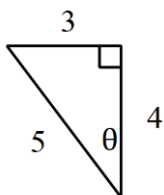
18. $\sec \theta =$ _____



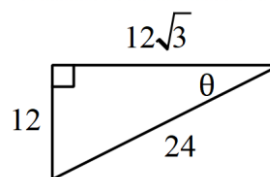
19. $\cos \theta =$ _____



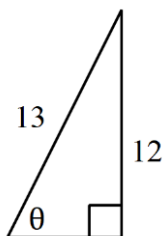
20. $\csc \theta =$ _____



21. $\cot \theta =$ _____



22. $\cos \theta =$ _____



23. $\sin \theta =$ _____

