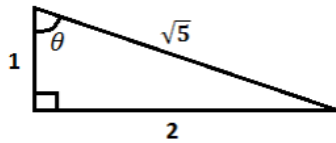


State the value of the hypotenuse, opposite and adjacent sides of angle θ of the given triangle:

1. a) hypotenuse = _____

b) opposite side = _____

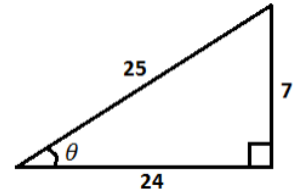
c) adjacent side = _____



2. a) hypotenuse = _____

b) opposite side = _____

c) adjacent side = _____

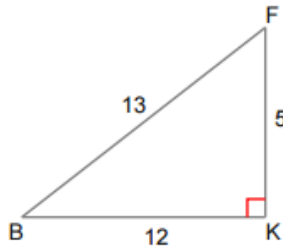


Write each ratio.

3. $\sin B =$ _____ $\sin F =$ _____

$\cos B =$ _____ $\cos F =$ _____

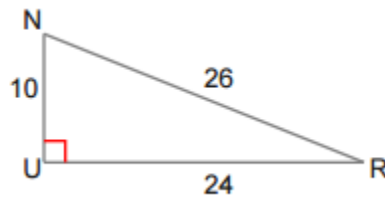
$\tan B =$ _____ $\tan F =$ _____



4. $\sin N =$ _____ $\sin R =$ _____

$\cos N =$ _____ $\cos R =$ _____

$\tan N =$ _____ $\tan R =$ _____



Find the following trig ratios by using your calculator. Round to the nearest hundredth.

5. $\sin(25^\circ) =$

6. $\cos(65^\circ) =$

7. $\sin(70^\circ) =$

8. $\cos(20^\circ) =$

9. $\sin(13^\circ) =$

10. $\cos(77^\circ) =$

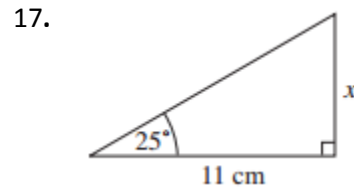
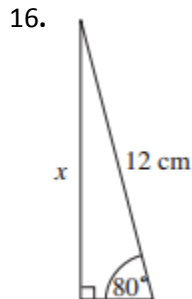
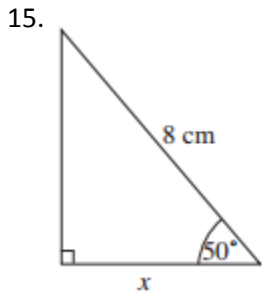
11. $\sin(67^\circ) =$

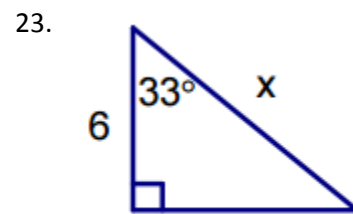
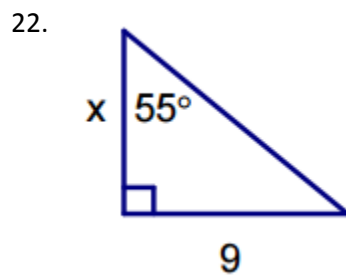
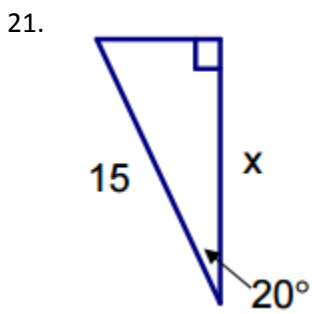
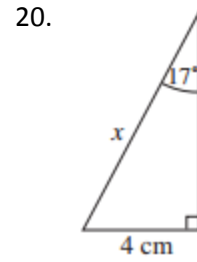
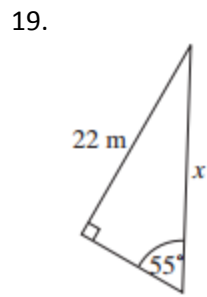
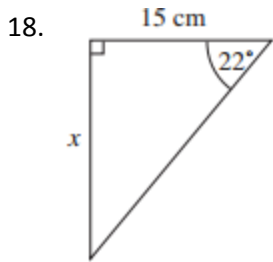
12. $\cos(23^\circ) =$

13. How do the angles in 5 & 6, 7 & 8, 9 & 10, and 11 & 12 relate?

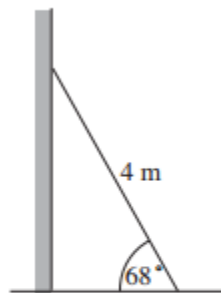
14. What did you notice about the value of each trig function of the angles in 5 & 6, 7 & 8, 9 & 10, and 11 & 12 relate?

Find the value of x to the nearest tenth.





24. A ladder leans against a wall as shown in the diagram.



- How far is the top of the ladder from the ground?
- How far is the bottom of the ladder from the wall?