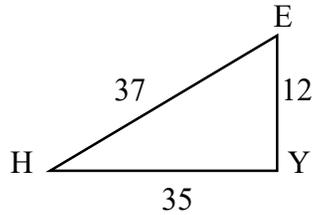


8.3 - 8.5 Homework

1. Find each value. Leave your answer as a fraction.



$$\sin H =$$

$$\cos H =$$

$$\tan H =$$

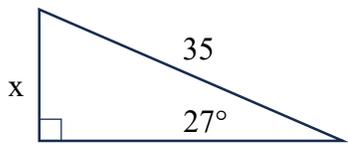
$$\sin E =$$

$$\cos E =$$

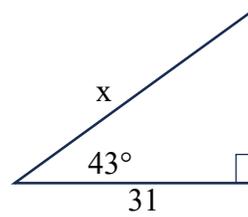
$$\tan E =$$

Find the value of x to the nearest hundredth.
Write the equation. Show the work.

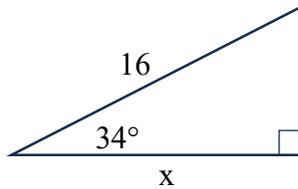
2.



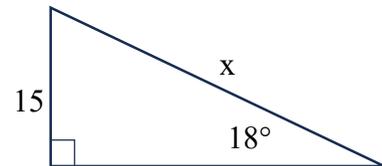
5.



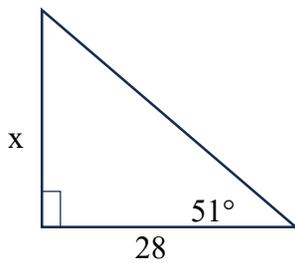
3.



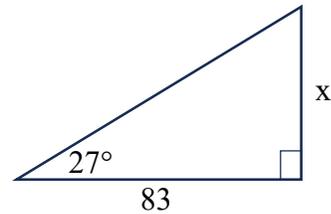
6.



4.

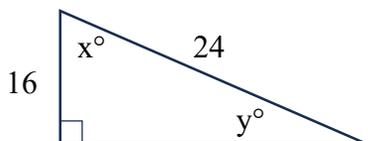


7.

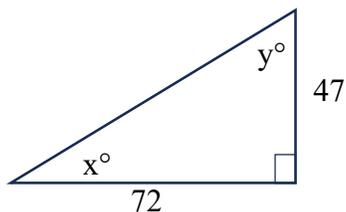


Find the value of x and y to the nearest tenth. Write the equations. Show the work.

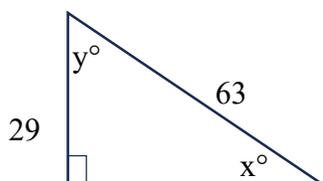
8.



9.



10.



Find the given values. Round your answer to 4 decimal places.

11. $\sin 45^\circ$

12. $\cos 118^\circ$

13. $\tan 37^\circ$

Solve for the angle. Round your answer to 2 decimal places.

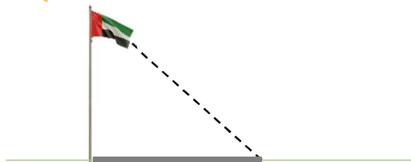
14. $\sin x^\circ = 0.4188$

15. $\cos x^\circ = 0.8042$

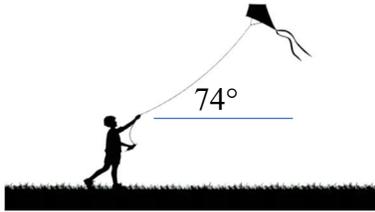
16. $\tan x^\circ = 1.3094$

17. A wheelchair ramp is 16 feet long (192 inches) and rise 14 inches. What is the angle of the ramp, to the nearest tenth of a degree?

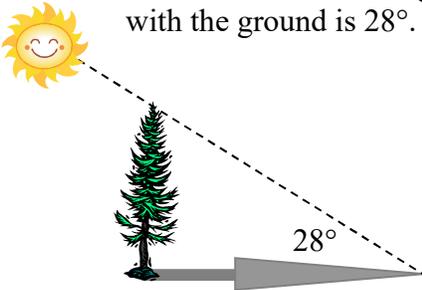
18. The world's tallest unsupported flagpole is in Jeddah, Saudi Arabia. It is 562 feet tall. It casts a shadow that is 238 feet long. To the nearest degree, what is the angle of elevation of the sun?



19. You are flying a kite. You have 200 feet of string. The angle that the string makes with the ground is 74 degrees. How high above the ground is your kite?



20. A tree cast a shadow on the ground. The shadow is 52 feet long. The angle that the sun makes with the ground is 28° . Find the height of the tree to two decimal places.



21. A 16'-long board is propped against a wall. If the bottom of the board is 4 feet from the bottom of the wall, what angle does the board make with the ground?

