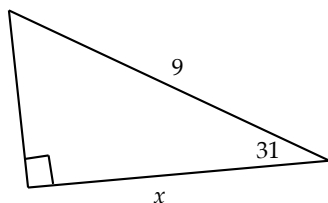


Trigonometry SohCahToa

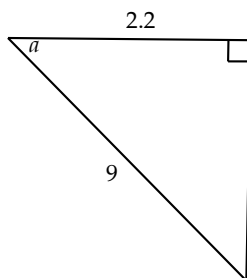
Give non-exact answers correct to three significant figures. (I've just noticed that I clearly have an unhealthy obsession with cosine (over sine and tangent); I'll try to balance things up someday.)

1. Find the value of x in the diagram below.



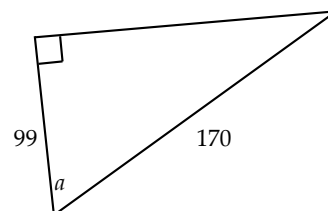
$x = 7.71$

4. Find the value of a in the diagram below.



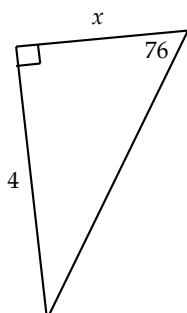
$a = 75.9$

7. Find the value of a in the diagram below.



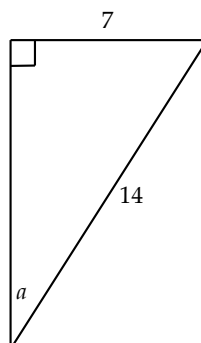
$a = 54.4$

2. Find the value of x in the diagram below.



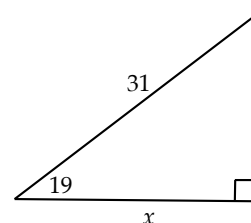
$x = 0.997$

5. Find the value of a in the diagram below.



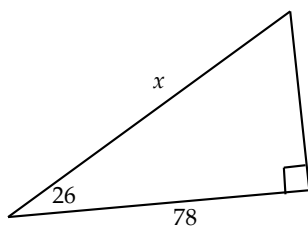
$a = 30$

8. Find the value of x in the diagram below.



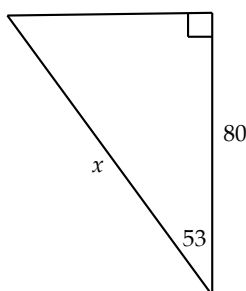
$a = 29.3$

3. Find the value of x in the diagram below.



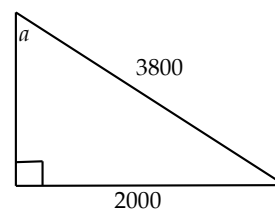
$x = 86.8$

6. Find the value of x in the diagram below.



$x = 133$

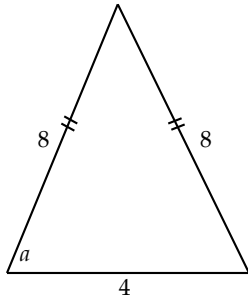
9. Find the value of a in the diagram below.



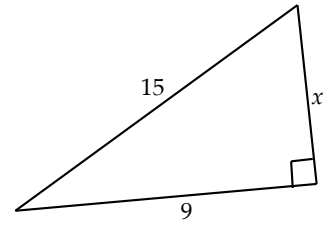
$a = 31.8$

10. Find the value of a in the diagram below.

$a = 14.6$



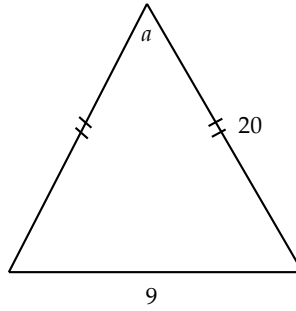
12. Find the value of a in the diagram below.



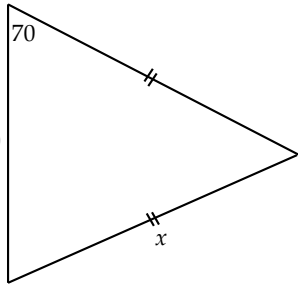
$x = 12$

$a = 75.5$

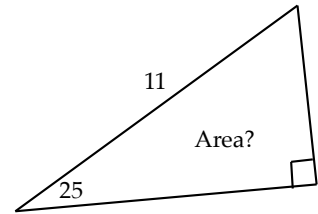
11. Find the value of x in the diagram below.



14. Find the area of the triangle below.



$a = 26$



Area = 23.2

13. Find the value of x in the diagram below.