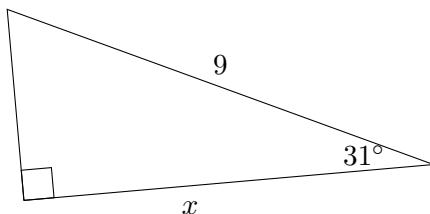


## Trigonometry SohCahToa

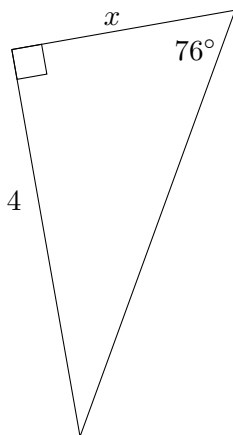
Give non-exact answers correct to three significant figures. (I've just noticed that I clearly have an unhealthy obsession with cosine (over sine and tangent); I'll try to balance things up someday.)

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



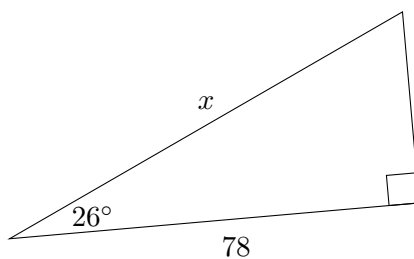
$$x = 7.71$$

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



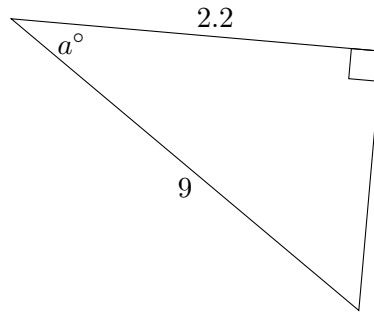
$$x = 0.997$$

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



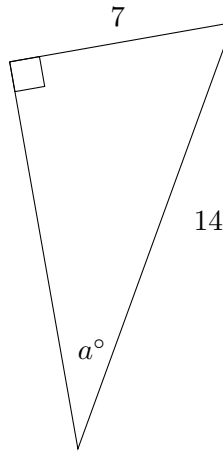
$$x = 86.8$$

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



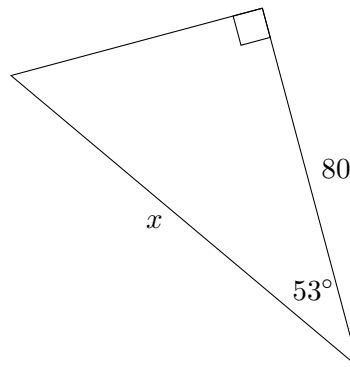
$a = 75.9$

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



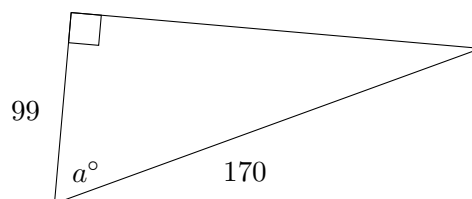
$a = 30$

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



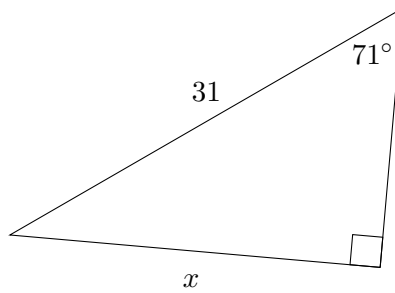
$x = 133$

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



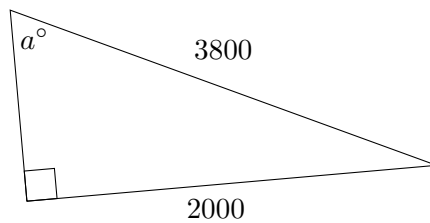
$a = 54.4$

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



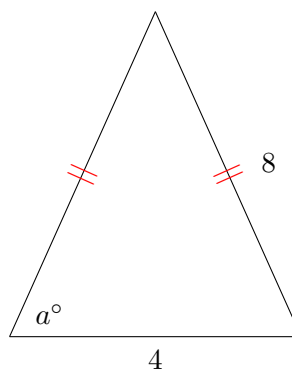
$a = 29.3$

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



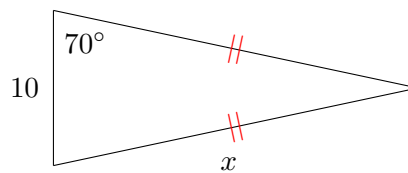
$a = 31.8$

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



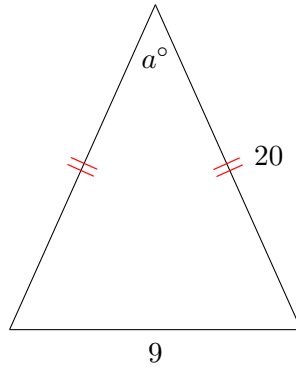
$a = 75.5$

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



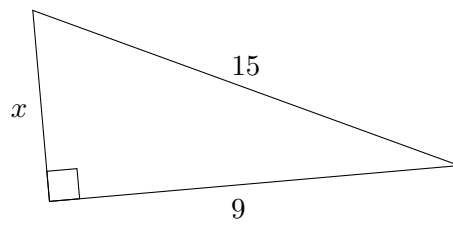
$a = 14.6$

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



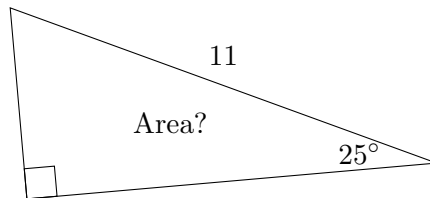
$$a = 26$$

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



$$x = 12$$

14. Find the area of the triangle below.



$$\text{Area} = 23.2$$