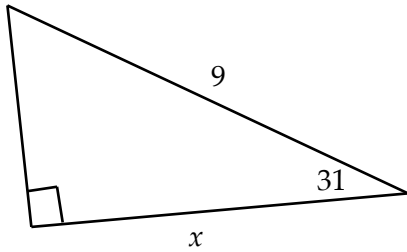


F Summer Trigonometry SohCahToa

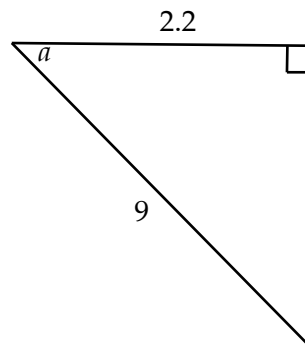
Give non-exact answers correct to three significant figures. (I've just noticed that I clearly have an unhealthy obsession with cosine (over sine and tangent); I'll try to balance things up someday.)

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



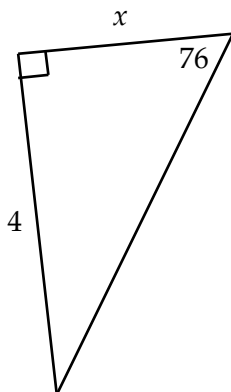
$$x = 86.8$$

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



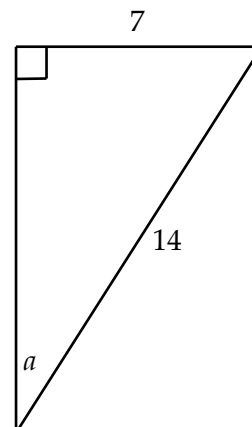
$$x = 7.71$$

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



$$a = 75.9$$

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

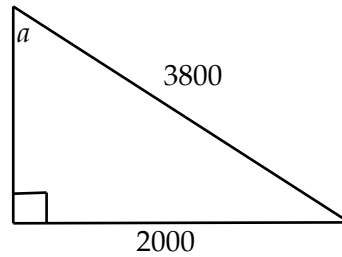
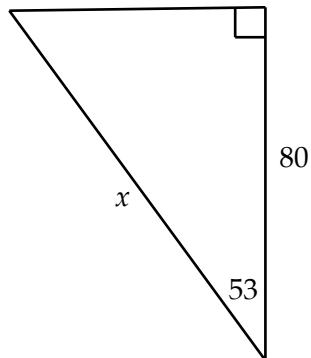


$$x = 0.997$$

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

$a = 30$

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

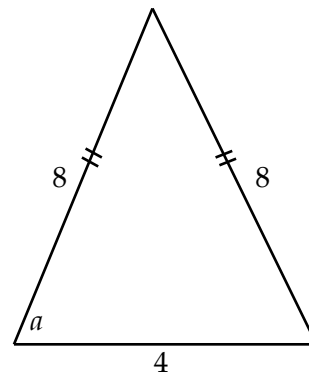
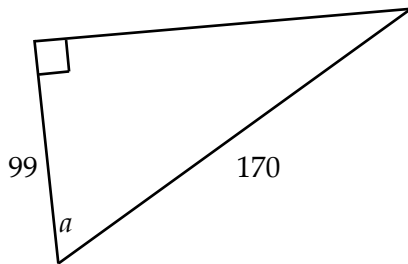


$a = 31.8$

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

$x = 133$

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

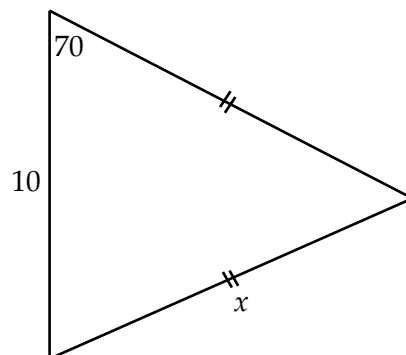
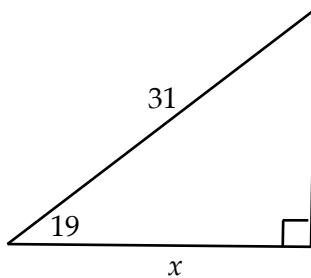


$a = 75.5$

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

$a = 54.4$

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



$a = 29.3$

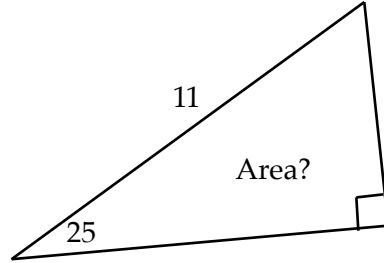
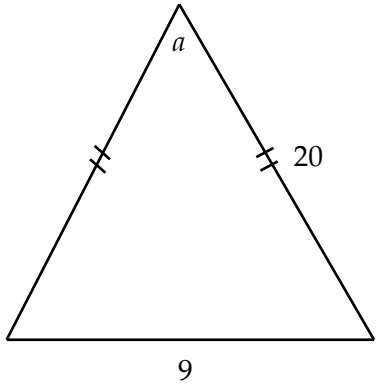
$a = 14.6$

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

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

$x = 12$

14. Find the area of the triangle below.



$a = 26$

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

Area = 23.2

