

Trigonometry on a Calculator *fluency*

ANSWERS



Work out. Give your answer to 1 decimal place.

1 $12 \cos 50^\circ$
 7.7

2 $5 \tan 62^\circ$
 9.4

3 $9 \sin 25^\circ$
 3.8

4 $14 \cos 18^\circ$
 13.3

5 $3.5 \tan 40^\circ$
 2.9

6 $20 \sin 71^\circ$
 18.9



Work out. Give your answer to 1 decimal place.

7 $9 \div \tan 40^\circ$
 10.7

8 $15 \div \sin 70^\circ$
 16.0

9 $7 \div \cos 35^\circ$
 8.5

10 $4.8 \div \tan 55^\circ$
 3.4

11 $11 \div \sin 28^\circ$
 23.4

12 $26 \div \cos 64^\circ$
 59.3



Find x to 1 decimal place

13 $\sin x = 0.4$
 $x = 23.6^\circ$

14 $\cos x = 0.75$
 $x = 41.4^\circ$

15 $\tan x = 2$
 $x = 63.4^\circ$

16 $\sin x = 0.85$
 $x = 58.2^\circ$

17 $\cos x = 0.2$
 $x = 78.5^\circ$

18 $\tan x = 0.6$
 $x = 31.0^\circ$



Find θ to 1 dp. opp is opposite θ , adj is next to θ , hyp is the hypotenuse.
Lengths in cm.

19 opp = 5, hyp = 9 $\theta = 33.7^\circ$

20 adj = 7, hyp = 10 $\theta = 45.6^\circ$

21 opp = 6, adj = 4 $\theta = 56.3^\circ$

22 opp = 3.2, hyp = 8 $\theta = 23.6^\circ$

23 adj = 12, hyp = 15 $\theta = 36.9^\circ$

24 opp = 2, adj = 9 $\theta = 12.5^\circ$



The angle and one side are given. Find the side marked ? to 1 decimal place.

25 35° , hyp = 12 cm, opp = ? 6.9 cm

26 50° , hyp = 8 cm, adj = ? 5.1 cm

27 28° , adj = 15 cm, opp = ? 8.0 cm

28 62° , opp = 9 cm, hyp = ? 10.2 cm

29 40° , adj = 7 cm, hyp = ? 9.1 cm

30 55° , opp = 11 cm, adj = ? 7.7 cm