

Trigonometry 3

1 Find, correct to four decimal places:

a $\sin 29^\circ 37'$

b $\tan 56^\circ 21'$

c $\cos 72^\circ 40'$

d $\tan 19^\circ 52'$

e $\cos 35^\circ 18'$

f $\sin 63^\circ 9'$

2 Find θ to the nearest minute if:

a $\cos \theta = 0.35$

b $\tan \theta = 1.7$

c $\sin \theta = 0.2916$

d $\tan \theta = 0.475$

e $\sin \theta = 0.945$

f $\cos \theta = 0.6235$

4 Choose the correct word to complete the statement:

Angles of elevation and depression are always measured from the _____ (horizontal/vertical).

4 Which direction is:

a P

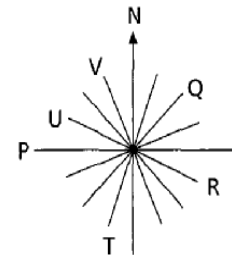
b Q

c R

d T

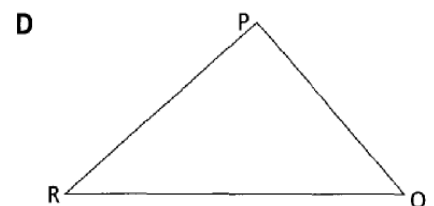
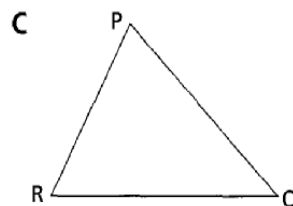
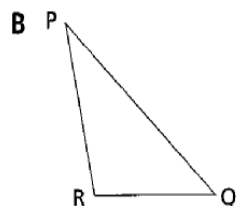
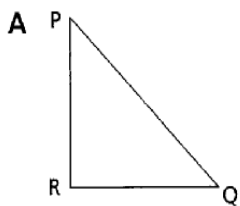
e U

f V



5 Which diagram best fits the given information?

A helicopter leaves P and flies 23 km southeast to Q. From Q it flies due west to R. From R it then flies straight back to P, a distance of 35 km.



6 Find the bearing of Q from P.

