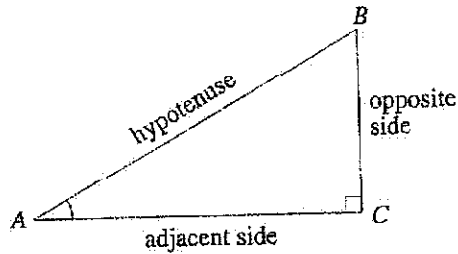


Remember these:

$$\sin \hat{A} = \frac{\text{side opposite } \hat{A}}{\text{hypotenuse}}$$

$$\cos \hat{A} = \frac{\text{side adjacent to } \hat{A}}{\text{hypotenuse}}$$

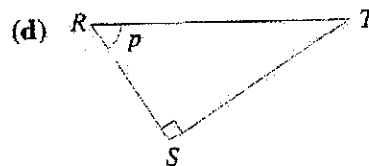
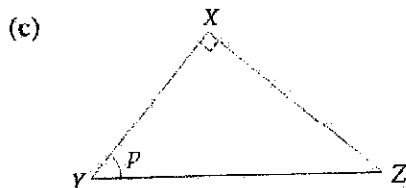
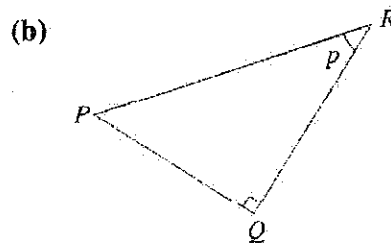
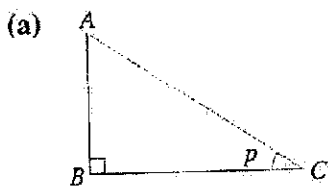
$$\tan \hat{A} = \frac{\text{side opposite } \hat{A}}{\text{side adjacent to } \hat{A}}$$

**Exercise 10.3**

Zz

answers on p. 438

1. For each diagram, name (i) the hypotenuse, (ii) the side opposite  $\hat{p}$ , (iii) the side adjacent to  $\hat{p}$ .



2. In  $\triangle XYZ$ ,  $\hat{X}$  is a right angle.

(a) In terms of  $XY$ ,  $YZ$  and  $ZX$ , find  $\sin \hat{Y}$ ,  $\cos \hat{Y}$  and  $\tan \hat{Y}$ .

(b) In terms of  $XY$ ,  $YZ$  and  $ZX$ , find  $\sin \hat{Z}$ ,  $\cos \hat{Z}$  and  $\tan \hat{Z}$ .

3. Find  $\sin \hat{A}$ ,  $\cos \hat{A}$  and  $\tan \hat{A}$  in terms of  $p$ ,  $q$  and  $m$  in each case.

