

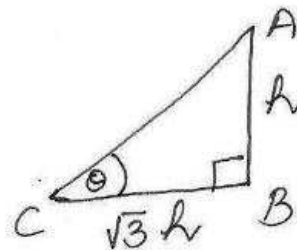
- ⑧ AB represents pole,  
BC shadow

$$\tan \theta = \frac{h}{\sqrt{3}x}$$

$$\Rightarrow \tan \theta = \frac{1}{\sqrt{3}}$$

$$\Rightarrow \theta = 30^\circ$$

angle of elevation of sun =  $30^\circ$



- ⑩ let AB represent wall,  
AC the ladder

rt  $\Delta ABC$

$$\cos 60^\circ = \frac{AB}{AC}$$

$$\frac{1}{2} = \frac{h}{15}$$

$$\Rightarrow h = \frac{15}{2}$$

$$= 7.5$$

$\therefore$  height of wall = 7.5 m

