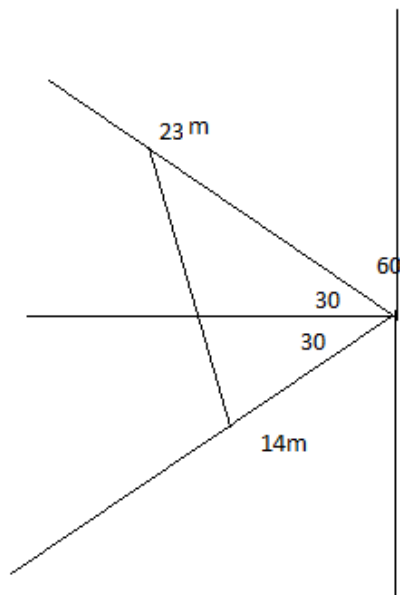


a)

distance between them $d^2 = (b \cos \theta)^2 + (a \sin \theta)^2$

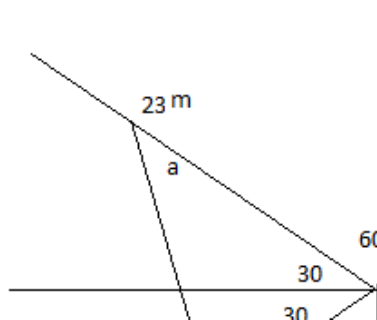


$$d^2 = 23^2 + 14^2 - 2 \cdot 14 \cdot 23 \cdot \cos 60 = 403$$

So $d = 20$

b)

by sin theorem



$$\frac{20}{\sin 60} = \frac{14}{\sin a}, \text{ where } a \text{ is}$$

$$\sin a = 0.7 \cdot \sin 60$$

$$\sin a = 0.6$$

$$a = \arcsin 0.6$$