

(3) (5)

But how long did it take A to get here (to p)

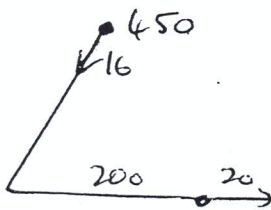
Going backwards: $|op| = 762.5 \cos(26.329^\circ) = 683.4$

$$\text{Time} = \frac{D}{s} = \frac{683.4}{31.241} = 21.875 \text{ s.}$$

$$\therefore \text{Time to get here} = 28.125 - 21.875 = 6.25 \text{ secs.}$$

Ans: 6.25 seconds

(ii) Let $t =$ time taken.

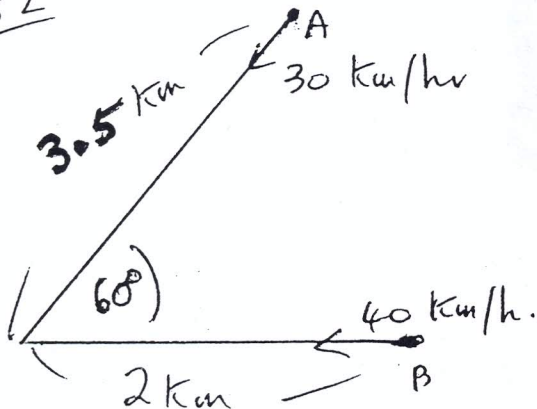


$$450 - 16t = 200 + 20t$$

$$250 = 36t$$

$$t = 6.94 \text{ s.}$$

1982



Find $V_{A/B}$.

Calculate the shortest distance between A and B.

(Ans: 1.92 km)

ALSO 1986

Ans: $v = 19.2$ (Reject $v = 0$)

(i) $d = 61.44$

(ii) 69 m (to nearest metre).