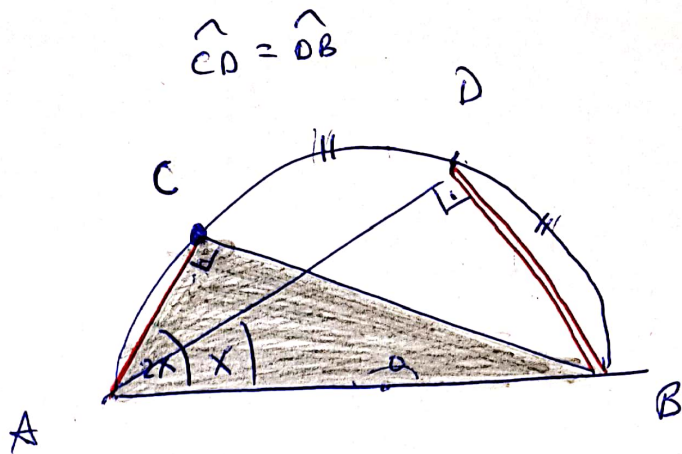


M<sup>o</sup> 502 pg 1762

$\widehat{AB} = 1$

$\widehat{AC} + \widehat{DB} \text{ MAX}$



[1]  $\widehat{CAB} = 2x$

$\widehat{AC} = 1 \cos 2x$

[2]  $0 < 2x < 90^\circ$   
 $0 < x < 45^\circ$

$\widehat{BD} = 1 \cdot \sin x$

[3]  $F(x) = \widehat{AC} + \widehat{DB} = \cos 2x + \sin x$

$F'(x) = -2 \sin 2x \cdot (2) + \cos x = 0$   
 $= -2 \sin 2x + \cos x = 0$

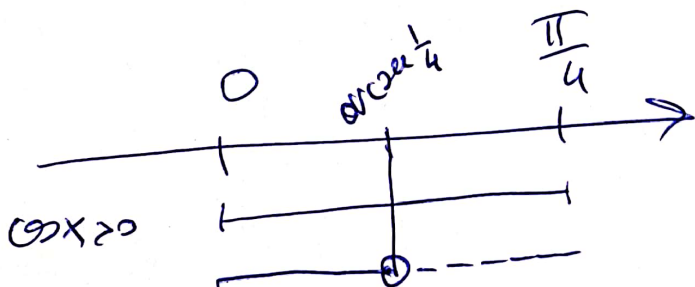
$= -2(2 \sin x \cos x) + \cos x = 0$

$= -4 \sin x \cos x + \cos x = 0$

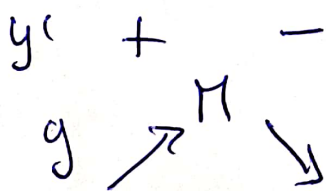
$= \cos x (-4 \sin x + 1) = 0$

LAP.  $\left\{ \begin{array}{l} \cos x = 0 \rightarrow \begin{cases} \frac{\pi}{2} \text{ No} \\ -\frac{\pi}{2} \text{ No} \end{cases} \\ -4 \sin x + 1 = 0 \\ \sin x = \frac{1}{4} \end{array} \right.$

$x = \arcsin \frac{1}{4} \approx 14,5^\circ$   
 $x = \pi - \arcsin \frac{1}{4} \approx 165^\circ$  ~~No~~



$-4 \sin x + 1 > 0$   
 $-4 \sin x > -1$   
 $\sin x < \frac{1}{4}$



$x = \arcsin \frac{1}{4} = 14,5^\circ = 0,25 \text{ RSD}$