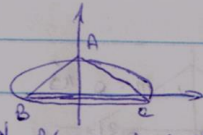


3.2
7



מסלול פרבולי, 0 km x-הקוואל A נקודת

A(0, sqrt(3)) נקודת

(x-הקוואל נקודת BC ה y-הקוואל נקודת c-B) B(t,s) c(t,s) (t,s)

BC=AB

$$\left\{ \begin{aligned} 2t &= \sqrt{t^2 + (s - \sqrt{3})^2} \rightarrow 4t^2 = t^2 + s^2 - 2\sqrt{3}s + 3 \\ \frac{t^2}{9} + \frac{s^2}{3} &= 1 \end{aligned} \right. \quad \left\{ \begin{aligned} 4t^2 &= t^2 + s^2 - 2\sqrt{3}s + 3 \\ 4t^2 + 9s^2 &= 9 \end{aligned} \right.$$

$$\left\{ \begin{aligned} 3t^2 &= s^2 - 2\sqrt{3}s + 3 \\ t^2 &= 9 - 3s^2 \end{aligned} \right. \rightarrow \begin{aligned} 3(9 - 3s^2) &= s^2 - 2\sqrt{3}s + 3 \\ 27 - 9s^2 &= s^2 - 2\sqrt{3}s + 3 \\ 10s^2 - 2\sqrt{3}s - 24 &= 0 \quad /:2 \\ 5s^2 - \sqrt{3}s - 12 &= 0 \end{aligned}$$

$$\frac{\sqrt{3} \pm \sqrt{243}}{10} = \frac{\sqrt{3} \pm 9\sqrt{3}}{10} = \rightarrow -\frac{4}{5}\sqrt{3}$$

C(-1.8, 4/5 sqrt(3)) B(1.8, -4/5 sqrt(3)) נקודת

S = $\frac{BC \cdot h}{2} = \frac{3.6 \cdot \sqrt{3} \cdot \frac{9}{5}}{2} = 3.24\sqrt{3} \leftarrow h = \sqrt{3} + \frac{4}{5}\sqrt{3} = \sqrt{3} \left(\frac{9}{5}\right)$ BC N A נקודת