SOLUTION

Given a bridge has a parabolic arch of 10 m high in the centre and 30 m wide at the bottom.

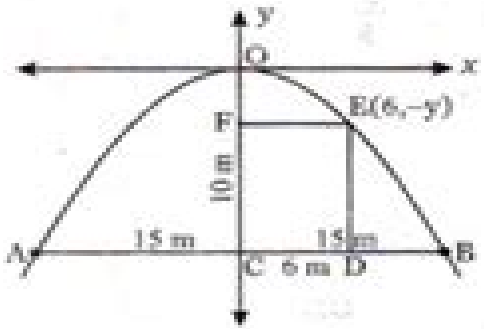
Choose the vertex as the origin and the axis of the parabola as the y - axis.

The parabola is open downward.

AB - Width of the bottom = 30 m ,

CO - Height of the parabolic arch at the centre = 10 m.

$\therefore$ The coordinate of B is (CB , – OC) , B is (15 , – 10)



By our choice the equation of the parabola is $x^2 = -4ay$ -----(1)

B (15 , – 10) is a point on the parabola. $\therefore 15^2 = -4a \times -10 \Rightarrow 4a = \frac{15^2}{10}$

The equation of the parabola becomes $x^2 = -\frac{15^2}{10} y$ -----(2)

D is a point 6m from the centre. DE is the height of the parabolic arch at a distance of 6m from the centre. Let the coordinates of E be (6 , – y). Substituting in equation (2) we get

$6^2 = -\frac{15^2}{10} \times -y \Rightarrow y = \frac{36 \times 10}{225} = \frac{360}{225} = 1.6 \Rightarrow OF = 1.6$

Required height DE = CF = CO – OF $\Rightarrow$ DE = 10 – 1.6 = 8.4

$\therefore$ The height of the arch at a distance 6m from the centre is 8.4 m.

Conic Sections Application Problems

Xiaolong Qi

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