(a) In Figure 2 below, lines **KL** and **MN** are asymptotes of a curve. **P** is a point on the curve.

Required: (i) Construct the curve   . **(6 marks)**
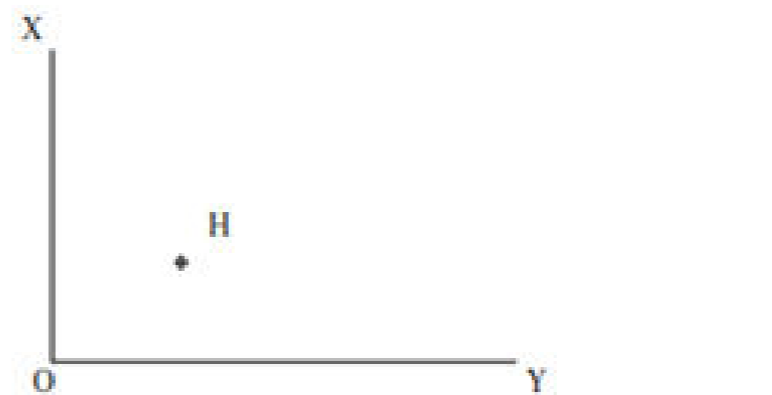
(ii) Name the curve.   **(1 mark)**

Name of the curve: _____

K

•P

M————————————————————N

L
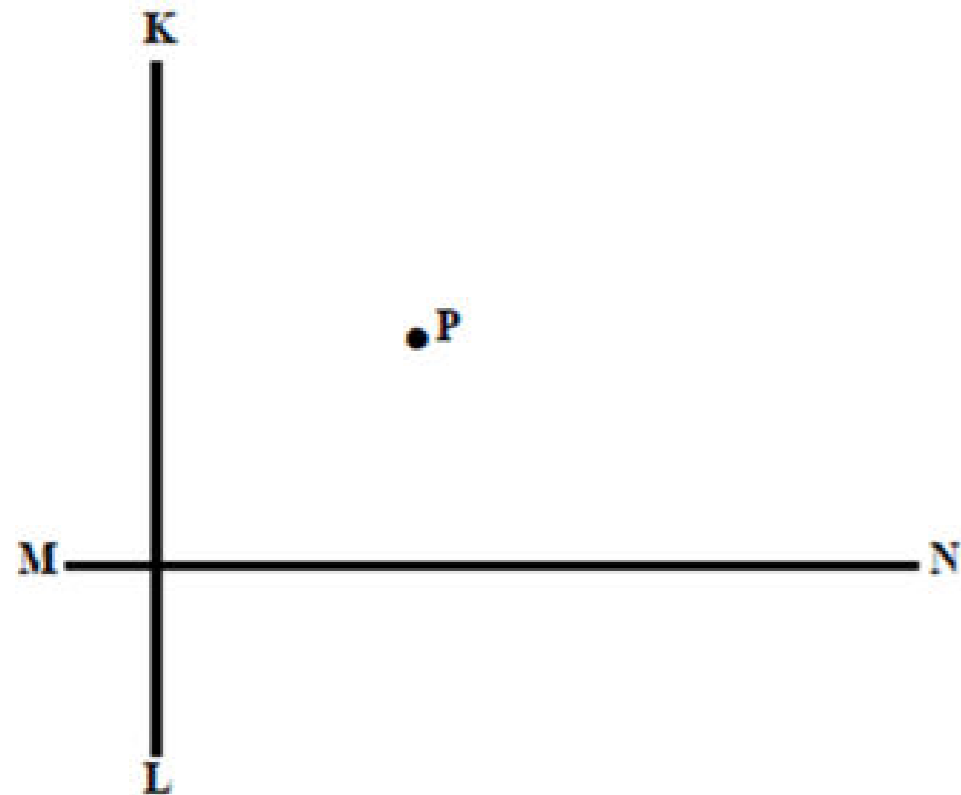
Given: The asymptotes, OX and OY and a point H on the hyperbolic curve.

Required: Construct the hyperbola.

X

H
•

O   Y

Given: the directrix and vertex on the axis of a conic section with a ratio of 1:1

Required: (i)   Find the focal point.   **(1 mark)**

(ii)   Draw the conic section.   **(2 marks)**

(iii)   Name the conic section. _____   **(1 mark)**

D | V

Construct a Plain Reduction Scale of 1:50 to read Metres and Tenths of a Metre up to 7 metres.

CALCULATION

Construct a Plain Reduction Scale of 10mm:0.25m which should be able to measure Metres and tenths of a Metre up to 4 Metres

CALCULATION