



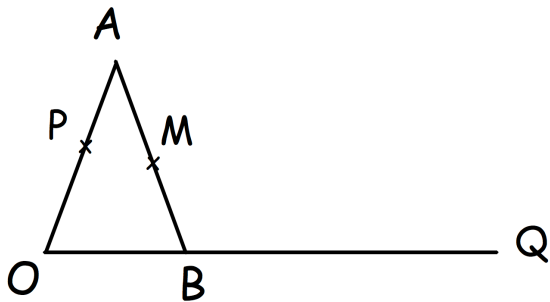
The line L has equation $y = 2x + 8$
 The line L crosses the x-axis at the point A.
 The line M is perpendicular to Line L and passes through the point A

Find the coordinates of the point A.

Find equation of the Line M.

The bearing of A to B is x .
 x is greater than 180° .

Show the bearing of B to A is $(x - 180)^\circ$



$$\vec{OA} = 5\mathbf{a} \quad \vec{OB} = \mathbf{b}$$

M is the midpoint of AB
 P is a point on OA, such that $OP:OA = 3:5$
 B is a point on OQ, such that $OB:BQ = 1:2$

Show that PMQ is a straight line.