

Straight line graphs – 2022 Nov IGCSE 0606 Additional Math

1. Nov/2022/Paper_0606_13/No.13

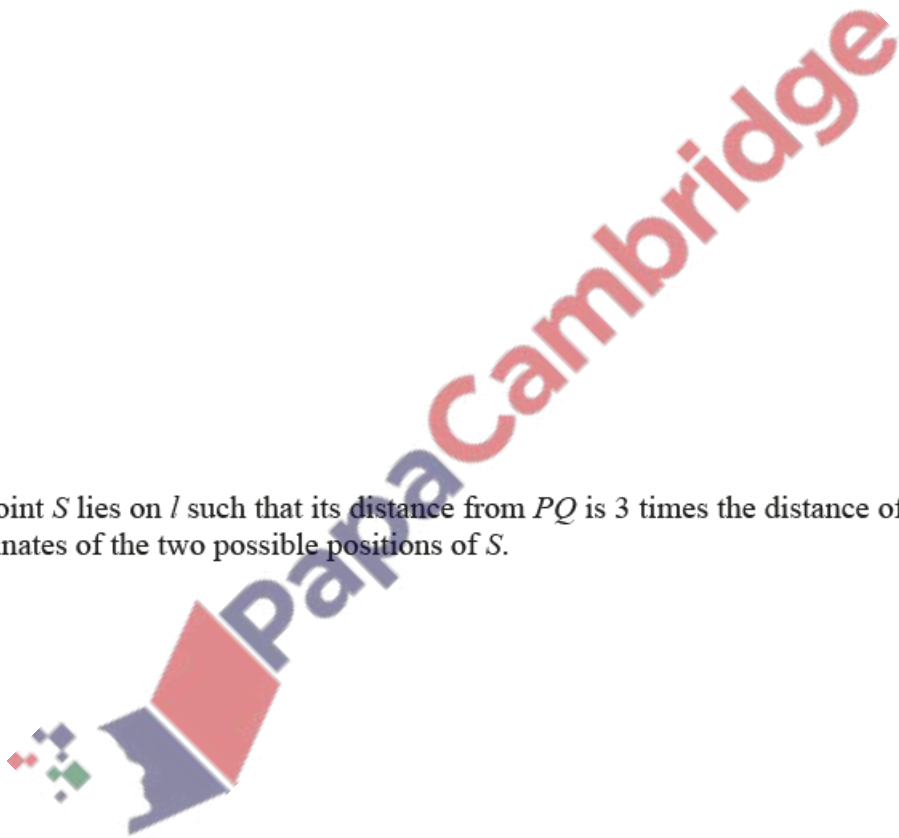
The points P and Q have coordinates $(5, -12)$ and $(15, -6)$ respectively. The point R lies on the line l , the perpendicular bisector of the line PQ . The x -coordinate of R is 7.

(a) Find the y -coordinate of R .

[4]

(b) The point S lies on l such that its distance from PQ is 3 times the distance of R from PQ . Find the coordinates of the two possible positions of S .

[3]



2. Nov/2022/Paper_0606_22/No.11

The coordinates of points A and B are $(-5, 6)$ and $(4, -6)$ respectively. The point C lies on the line AB , between A and B , such that $\frac{AC}{CB} = \frac{1}{2}$.

(a) Find the coordinates of C . [2]

(b) The line CD is perpendicular to AB . Find the equation of CD in the form $y = mx + c$. [4]

