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]

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