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3 Exam Questions
Yr 1 – Straight Line Graphs

(1) The line segment AB passes through $A(4,1)$ and $B(8,13)$. The perpendicular bisector of the line segment AB crosses the x axis at P and the y axis at Q . Find the length of PQ giving your answer as a simplified surd.

(2) Line l_1 passes through the points $(-6, 3)$ and $(2, -9)$. l_1 crosses the x axis at P and the y axis at Q . Find the exact area of $\triangle POQ$ where O is the origin.

(3) Point P has coordinates $(3, p)$ where $p < 10$. The point Q has coordinates $(9,13)$. Given that the length of the line segment $PQ = \sqrt{85}$, find the equation of the line through P and Q in the form $ax + by = c$.

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