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1. The point A (12, 12) lies on the parabola with equation $y^2 = 12x$. The point S is the focus of this parabola. The line l passes through A and S.

(a) Find an equation of the line l.

(3)

The line l meets the directrix of the parabola at the point B.

(b) Find the coordinates of B.

(3)

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Question 1 continued

Q1

(Total 6 marks)