6. The variables x and y have the following regression equations based on the same 12 observations.

	Regression equation
y on x	$y = 1.4x + 1.5$
x on y	$x = 1.2 + 0.2y$

(a) (i) Find the point of intersection of these lines.

(ii) Hence show that $\sum x = 25$

(4)

Given that

$$\sum xy = \frac{6961}{60}$$

(b) Find S_{xy}

(4)

(c) Find the product moment correlation coefficient between x and y

(4)

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Question 6 continued

Question 6 continued

(Total for Question 6 is 12 marks)

TOTAL FOR PAPER IS 75 MARKS

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