

**5** The curve  $R$  has equation  $y = x^2 - 7x + 10$

The curve  $S$  has equation  $y = -x^2 + 7x - 2$

- (a) Find the coordinates of each of the two points where the curves  $R$  and  $S$  intersect. (4)

- (b) Find the area of the finite region bounded by the curve  $R$  and the curve  $S$ . (4)

**Question 5 continued**





(Total for Question 3 is 6 marks)

