

## Section B (36 marks)

- 10 (i) Points A and B have coordinates  $(-2, 1)$  and  $(3, 4)$  respectively. Find the equation of the perpendicular bisector of AB and show that it may be written as  $5x + 3y = 10$ . [6]
- (ii) Points C and D have coordinates  $(-5, 4)$  and  $(3, 6)$  respectively. The line through C and D has equation  $4y = x + 21$ . The point E is the intersection of CD and the perpendicular bisector of AB. Find the coordinates of point E. [3]
- (iii) Find the equation of the circle with centre E which passes through A and B. Show also that CD is a diameter of this circle. [5]
- 11 (i) Express  $x^2 - 5x + 6$  in the form  $(x - a)^2 - b$ . Hence state the coordinates of the turning point of the curve  $y = x^2 - 5x + 6$ . [4]
- (ii) Find the coordinates of the intersections of the curve  $y = x^2 - 5x + 6$  with the axes and sketch this curve. [4]
- (iii) Solve the simultaneous equations  $y = x^2 - 5x + 6$  and  $x + y = 2$ . Hence show that the line  $x + y = 2$  is a tangent to the curve  $y = x^2 - 5x + 6$  at one of the points where the curve intersects the axes. [4]
- 12 You are given that  $f(x) = x^4 - x^3 + x^2 + 9x - 10$ .
- (i) Show that  $x = 1$  is a root of  $f(x) = 0$  and hence express  $f(x)$  as a product of a linear factor and a cubic factor. [3]
- (ii) Hence or otherwise find another root of  $f(x) = 0$ . [2] ✓
- (iii) Factorise  $f(x)$ , showing that it has only two linear factors. Show also that  $f(x) = 0$  has only two real roots. [5]

# June 2013 C1 Unofficial Mark Scheme

**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Lei Shi'.

**June 2013 C1 Unofficial Mark Scheme:**  
**Los Angeles Times ,1974**

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