## THE LINE (Q 2, PAPER 2)

## 2004

- 2 (a) p(5, -8) and q(11, 10) are two points. Find the co-ordinates of the midpoint of [pq].
  (b) a(-1, -2), b(3, 1), c(0, 4) are three points. (i) Find the length of [ab].
  (ii) Calculate the area of the triangle abc.
  (iii) The line L is parallel to ab and passes through the point c. Find the equation of L.
  - (iv) Show that the point d(-4, 1) is on L.
  - (v) Investigate whether *abcd* is a parallelogram.

<b>Answers</b> 2 (a) (8, 1)		
(b) (i) 5 (v) Yes	(ii) $\frac{21}{2}$	(iii) $3x - 4y + 16 = 0$