

THE LINE (Q 2, PAPER 2)

LESSON NO. 4: SLOPE OF A LINE

2003

- 2 (b) $a(-2, 2)$, $b(4, 6)$ and $c(0, -4)$ are three points.
 p is the midpoint of $[ab]$ and q is the midpoint of $[ac]$.
- (i) Find the co-ordinates of p and the co-ordinates of q .
 - (ii) Plot a , b , c , p and q on a co-ordinate diagram on graph paper.
Show the line segments $[bc]$ and $[pq]$ on your diagram.
 - (iii) Using slopes, or otherwise, prove that pq is parallel to bc .

ANSWERS

2003 2 (b) (i) $p(1, 4)$, $q(-1, -1)$

(iii) Slope of pq = Slope of ab = $\frac{5}{2}$

