THE LINE (Q 2, PAPER 2)

2008

- 2 (a) Find the area of the triangle with vertices (0, 0), (8, 6) and (-2, 4).
 - (b) *L* is the line y 6 = -2(x + 1).
 - (i) Write down the slope of *L*.
 - (ii) Verify that p(1, 2) is a point on *L*.
 - (iii) *L* intersects the *y*-axis at *t*. Find the co-ordinates of *t*.
 - (iv) Show the line *L* on a co-ordinate diagram.
 - (c) o(0, 0), a(5, 2), b(1, 7) and c(-4, 5) are the vertices of a parallelogram.
 - (i) Verify that the diagonals [*ob*] and [*ac*] bisect each other.
 - (ii) Find the equation of *ob*.

