THE LINE (Q 2, PAPER 2)

LESSON NO. 2: DISTANCE FORMULA

2005

2 (a) Find the distance between the two points (3, 4) and (15, 9).

2003

2 (a) Find the distance between the two points (3, 2) and (8, 14).

2000

- 2 (b) a(-2, -1), b(1, 0) and c(-5, 2) are three points.
 - (i) Show that $|ab| = \sqrt{10}$.
 - (ii) Find |bc|.
 - (iii) Hence, find the ratio |*ab*| : |*bc*|.Give your answer in the form *m*:*n* where *m* and *n* are whole numbers.

1999

2 (c) a(0, 5), b(x, 10) and c(2x, x) are three points. Find |ab| in terms of x. If |ab| = |bc|, calculate the two possible values of x.

1997

2 (a) Find the distance between the two points (-5, 1) and (7, -4).

Answers 2005 2 (a) 13 2003 2 (a) 13 2000 2 (b) (i) $\sqrt{40} = 2\sqrt{10}$ (ii) 1:2 1999 2 (c) $|ab| = \sqrt{x^2 + 25}$; x = 5, 151997 2 (a) 13