LINEAR PROGRAMMING (Q 11, PAPER 2)

LESSON NO. 1: GRAPHING LINEAR INEQUALITIES

2001

11 (a) Using graph paper, illustrate the set of points (that simultaneously satisfy the three inequalities:

$$y \geq 2$$
$$x + 2y \leq 8$$
$$5x + y \geq -5.$$

1998

11 (a) Write down the coordinates of two points on the line $2x + 3y = 18$.

On a diagram, illustrate the set of points (x, y) that satisfy simultaneously the three inequalities

$$2x + 3y \leq 18$$
$$x \geq 3$$
$$y \geq 2.$$

1997

11 (a) On one diagram, illustrate the set of points (x, y) that satisfy the three inequalities

$$x + y \leq 7$$
$$2x + y \geq 8$$
$$y \geq 0.$$

ANSWERS
1998 11 (a) (0, 6), (9, 0)