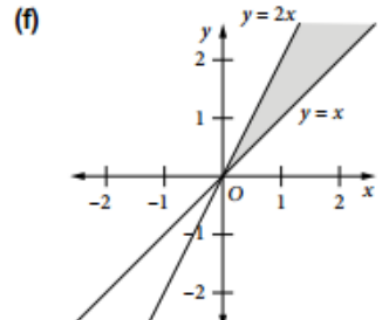
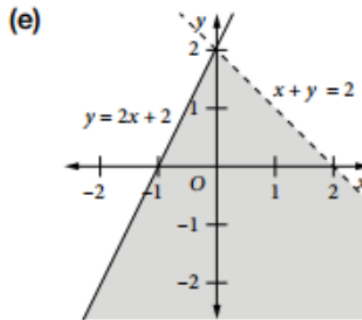
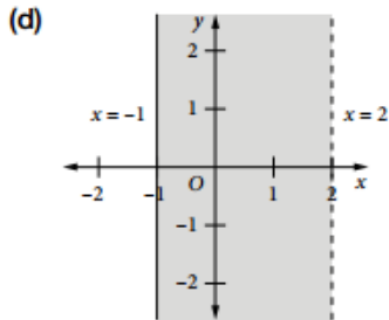
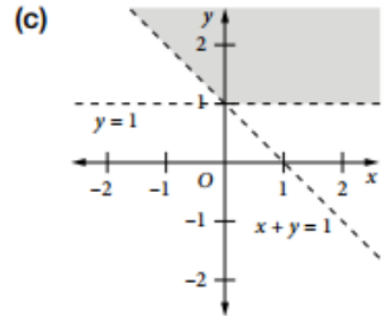
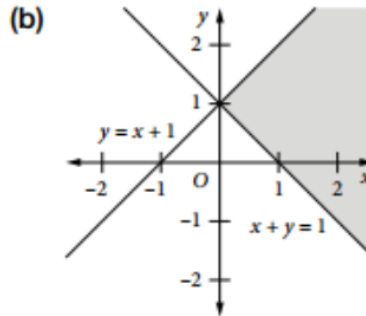
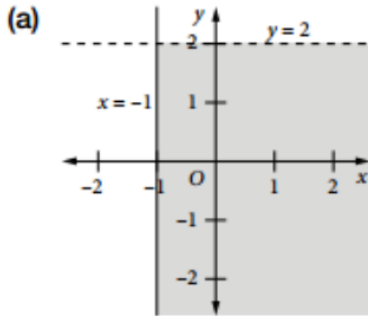


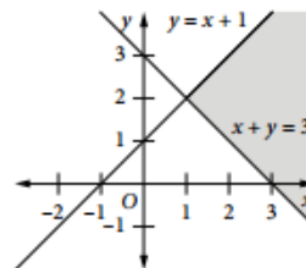
SIMULTANEOUS LINEAR INEQUALITIES

1 Describe the shaded region in each diagram using both words and inequalities.



2 Which of the following points is in the shaded region?

- A (1, 3) B (1, 1)
C (3, 1) D (-1, 3)

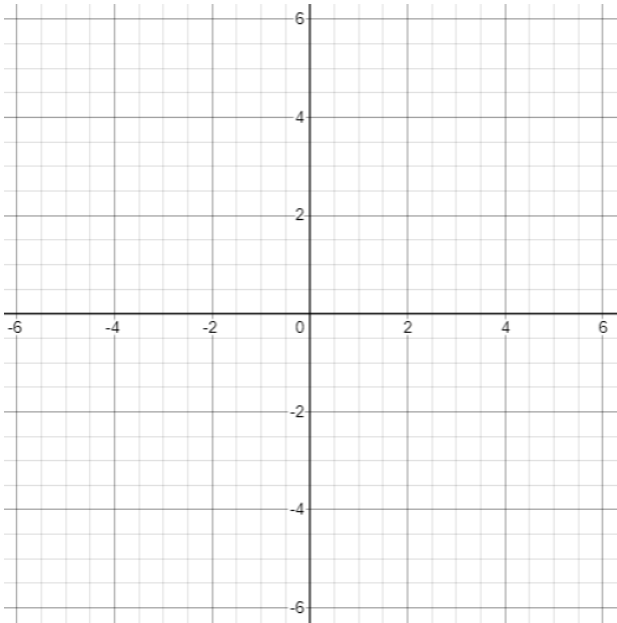


3 What are the inequalities that define the region graphed in question 2?

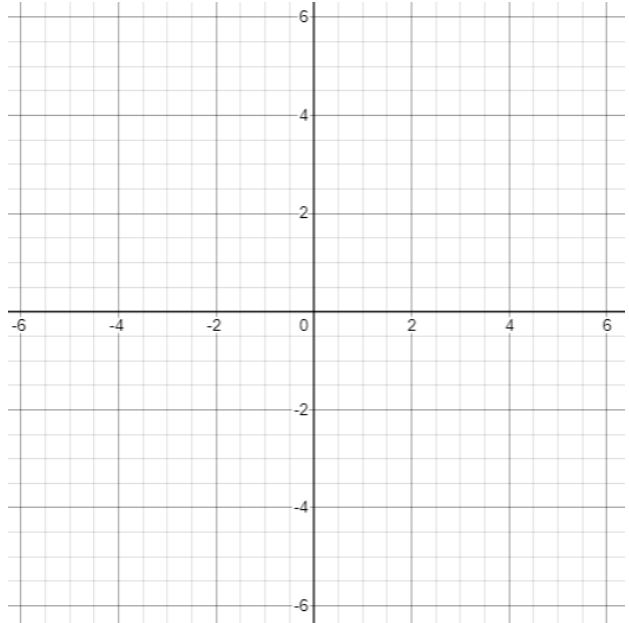
SIMULTANEOUS LINEAR INEQUALITIES

4 Graph the regions defined by each set of inequalities. State whether each of the given points is in the region.

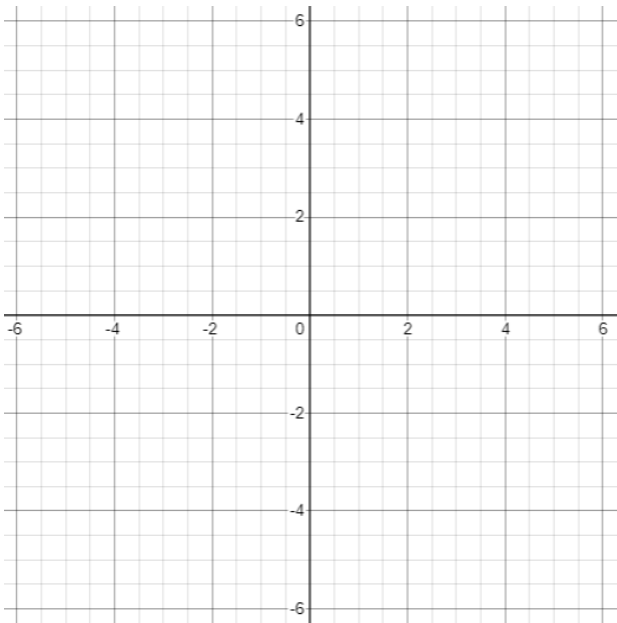
(a) $x + y \leq 3, y \leq x$
 $(0, 0), (2, 3), (-1, -2)$



(b) $2y > x + 2, x + y > -1$
 $(0, 0), (0, 1), (2, 5)$



(c) $x + 2y \geq 8, y < 7$
 $(0, 4), (-1, 1), (9, 2)$



(f) $y > 3x + 3, x + y < 3$
 $(0, 3), (2, 7), (-1, 4)$

