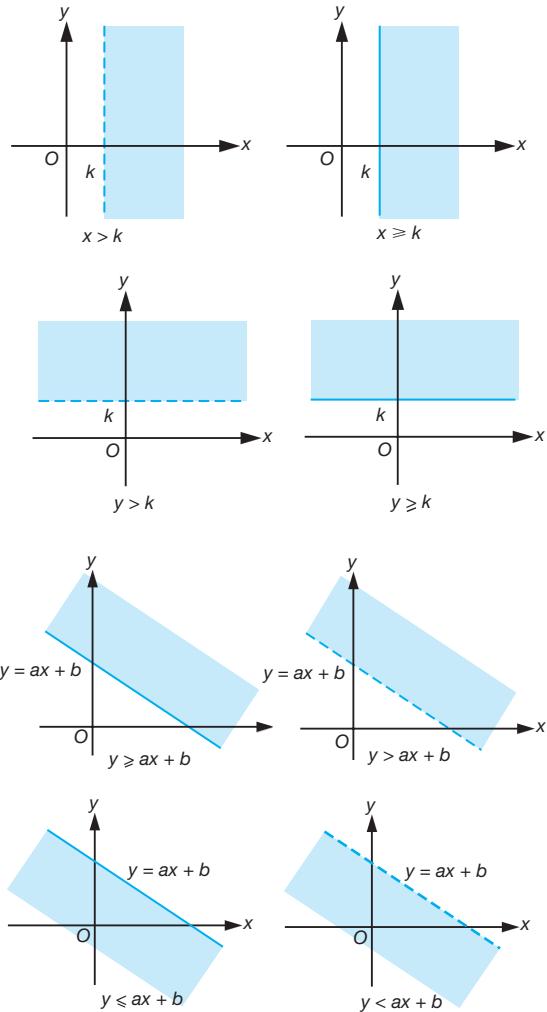


# CONCEPT MAP

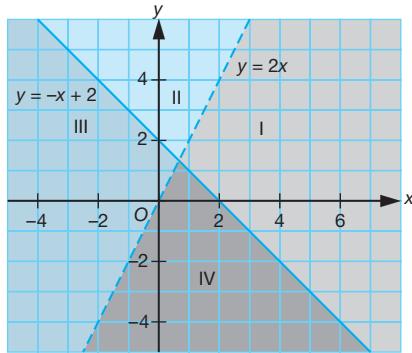
FORM 4

## LINEAR INEQUALITIES IN TWO VARIABLES

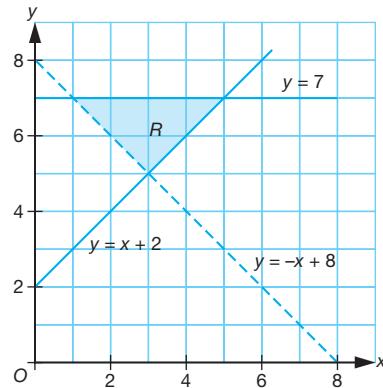
### Linear Inequalities in Two Variables



### System of Linear Inequalities



- $y < 2x$  and  $y \geq -x + 2 \rightarrow$  Region I
- $y \geq -x + 2$  and  $y > 2x \rightarrow$  Region II
- $y \leq -x + 2$  and  $y > 2x \rightarrow$  Region III
- $y < 2x$  and  $y \leq -x + 2 \rightarrow$  Region IV



The three linear inequalities that satisfy the shaded region  $R$  are  $y \leq 7$ ,  $y \geq x + 2$  and  $y > -x + 8$ .

### Solving Problems

Solving problems involving real-life situations