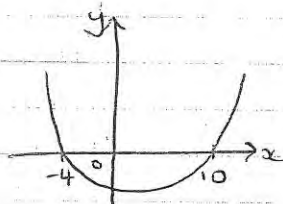


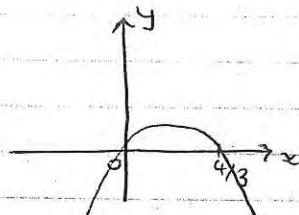
## Inequalities (ch 6)

1.  $x^2 - 6x - 40 \geq 0$   
 $(x-10)(x+4) \geq 0$   
 $x < -4$  or  $x > 10$



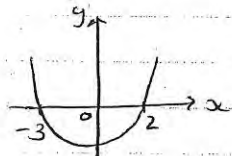
2.  $4x - 3x^2 > 0$   
 $x(4 - 3x) > 0$

$0 < x < 4/3$



3.  $x^2 + x - 6 \geq 0$   
 $(x-2)(x+3) \geq 0$

$x \leq -3$  or  $x \geq 2$



4.  $2 + 3(x-4) < 3(2x-5)$   
 $2 + 3x - 12 - 6x + 15 < 0$   
 $-3x + 5 < 0$   
 $3x - 5 > 0$   
 $3x > 5$   
 $x > 5/3$