

Test 4

Tuesday Nov.13th 2018

Maths 10

Inequations

Name: _____

1) Solve the following inequations

i) $4x + 3 > 3x - 4$

iii) $\frac{x+2}{4} \geq \frac{x-4}{5}$

ii) $4x + 3 > 7x - 4$

iv) $1 - \frac{x-2}{4} \leq \frac{x-4}{3}$

2) Solve the following inequations

ii) $(2x - 3)^5(x - 4) \geq 0$

iii) $(x - 3)(x - 4)(x + 2) < 0$

3) Solve the following inequations

i) $(x - 3)(x - 4) \geq 2$

ii) $(2x - 3)(3x - 4) < x$

4) Solve the following inequations

i) $(x^2 - 11x + 10)(x^2 - 5x + 6) < 0$

ii) $(x^2 - 11x + 10)(x^2 - 1) \geq 0$

5) Let us consider the the following relation: $y = -4x^2 + 4x + 35$

i) Complete the following table of values

x	-3	-2	-1	0	1	2	3	4
y	-13					27		

ii) Place the points from the table (above) on the diagram (on the right)

iii) Draw the graph (the curve) of

$y = -4x^2 + 4x + 35$ by joining the points.

iv) What is the name of such a curve ?

v) For what values of x do we have $y \geq 0$?

