

Pre-Test 4

Wednesday 7th Nov. 2018

Maths 10

Inequations

Name: _____

1) Solve the following inequations

i) $2x + 4 > x - 5$

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

ii) $2x + 4 > 7x - 41$

iv) $1 - \frac{x-2}{4} \leq \frac{x-4}{5}$

2) Solve the following inequations

i) $(x-3)(x-4) \geq 0$

iv) $(x-3)(x-4)^2 < 0$

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

v) $(x-3)^3(x-4)^8 < 0$

iii) $(x-3)(x-4)(x+2) \geq 0$

vi) $(x-3)^4(x-4)^2 \leq 0$

3) Solve the following inequations

i) $(x-3)(x-4) \geq 1$

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

4) Solve the following inequations

i) $(x^2 - 13x + 30)(x^2 + 2x - 8) < 0$

ii) $(x^2 - 13x + 30)(x^2 - 2x - 8) > 0$

5) The graph below shows the parabola of equation $y = 4x^2 - 16x + 7$

For what values of x the curve is under the x -axis?

