

overlapping values so $-2 < x < 6.5$

$$x - 5 > 1 - x \text{ and } 15 - 3x > 5 + 2x$$

$$x - 5 > 1 - x$$

$$15 - 3x > 5 + 2x$$

$$x > 6 - x$$

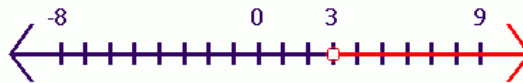
$$10 - 3x > 2x$$

$$2x > 6$$

$$10 > 5x$$

$$x > 3$$

$$2 > x \text{ or } x < 2$$



no overlapping values so $x > 3$ or $x < 2$

Quadratic inequalities

Preview from Notesale.co.uk
Page 5 of 8

$$9 - x^2 > 0$$

$$f(x) = 9 - x^2$$

$$f(x) > 0$$

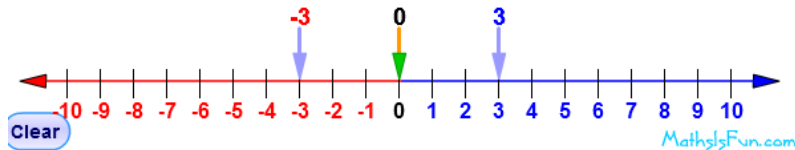
Critical Values

$$9 - x^2 = 0$$

$$(3 + x)(3 - x) = 0$$

$$x = 3 \text{ and } x = -3$$

Sign chart



Test Values

$$f(x) = 9 - x^2$$