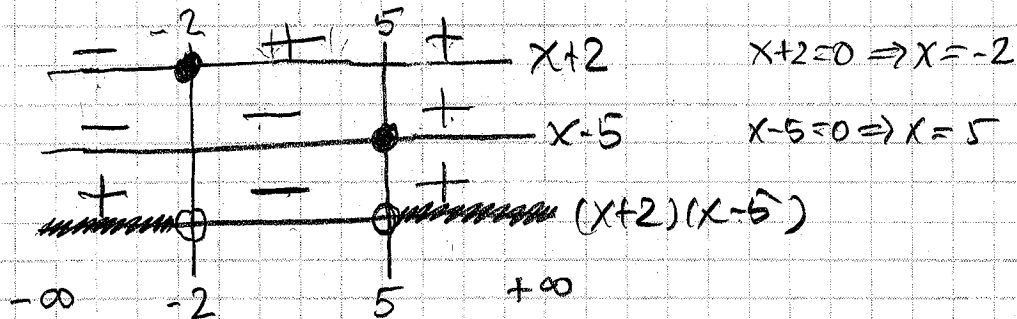


MORE INEQUALITIES

EX: $x^2 - 3x - 10 > 0$

$a = -10$	$10 \cdot 1$	$-10, 1$	$5, -2$	$(-5, 2)$
$b = -3$	9	-9	3	-3

$$(x+2)(x-5) > 0$$



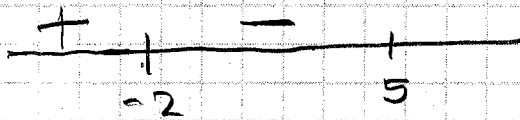
Solution: $(-\infty, -2) \cup (5, +\infty)$

ANOTHER WAY solve $x^2 - 3x - 10 = 0$

Factor Equation

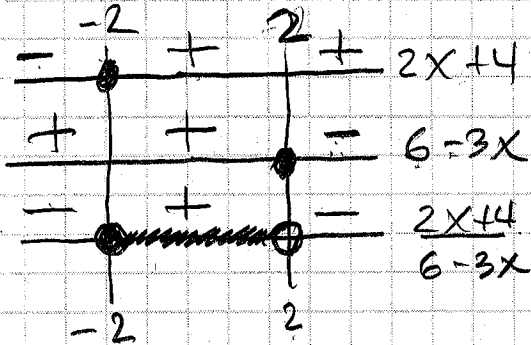
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$x = -2$ $x = 5$



test point $x = -3$	↑ test point $x = 0$	↑ $x = 7$
$x^2 - 3x - 10$	$x^2 - 3x - 10$...
$9 + 9 - 10 > 0$	-10	

$$\text{EX: } \frac{2x+4}{6-3x} \geq 0$$



$$2x+4=0 \Rightarrow x=-2$$

$$6-3x=0 \Rightarrow 6=3x$$

$$x=2$$

$$\frac{2x+4}{6-3x}$$

$$\frac{0}{12} = 0$$

$$\frac{2x+4}{6-3x}$$

$$\frac{-8}{0}$$

Soluhon: $[-2, 2)$