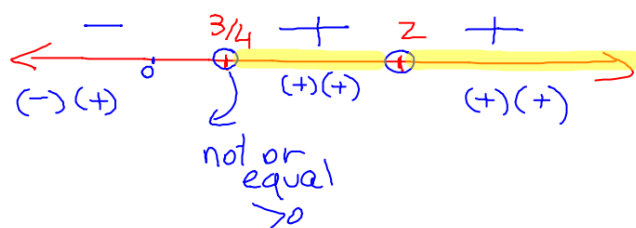


Section 2.8 :

Solving inequalities in one variable.

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

positive



- factored form
- look for zeros.

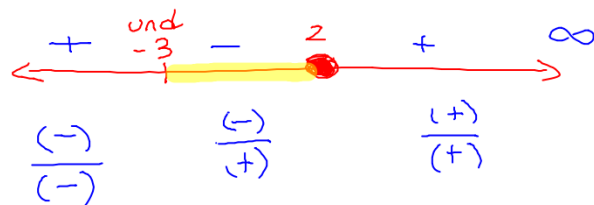
$$\left(\frac{3}{4}, 2\right) \cup (2, \infty)$$

Ex 1:

$$\frac{x-2}{x+3} \leq 0$$

negative or equal to 0

$$x \neq -3 \quad (\text{v. A at } -3)$$



- Let $N=0$
 $D=0$

$$\text{solution } x \in (-3, 2]$$

Ex 2

$$\frac{x^2+x-12}{x^2-4x+4} > 0$$

positive

$$\frac{(+)(-)}{(-)(-)}$$

$$\frac{(x+4)(x-3)}{(x-2)(x-2)} > 0$$

$$x \neq 2$$

- factor N & D
- Let $N=0 \rightarrow$ zeros
 $x\text{-int}$
 $D=0 \rightarrow$ undefined values



$$\text{Hw: } p242 \quad 7, 9, 10 / \quad (33 \rightarrow 43 \text{ odd})$$