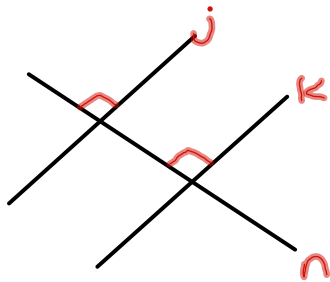


3.5 Properties of Parallel (//) Lines

* 2 theorems on foldable

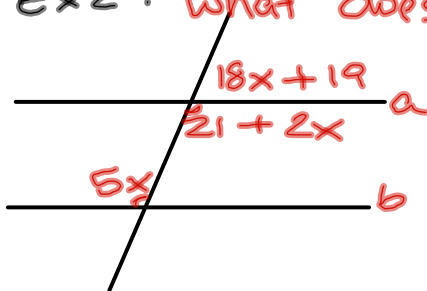
Ex 1:



is $j \parallel k$?

Yes $j \parallel k$ because they are both \perp to n .

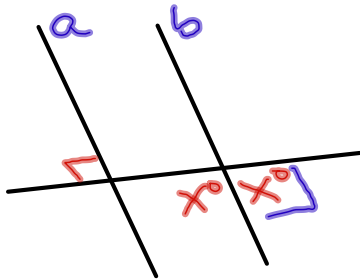
Ex 2: what does x have to be to make $a \parallel b$?



$$\begin{aligned} 21 + 2x &= 5x \\ -2x &\quad -2x \\ 21 &= 3x \\ 7 &= x \end{aligned}$$

Ex 3:

what x makes $a \parallel b$.

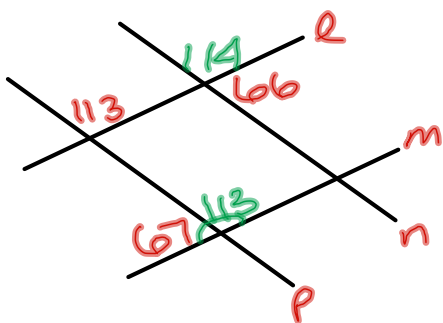


$$x + x = 180$$

$$\frac{2x}{2} = \frac{180}{2}$$

$$x = 90$$

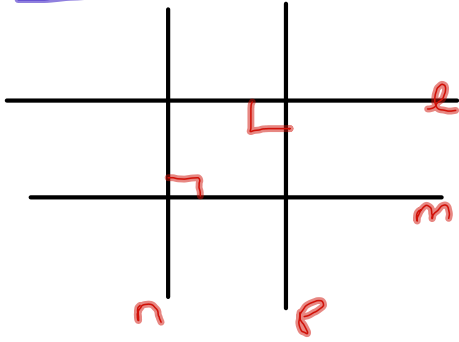
EX 4:



$l \parallel m$ because
Corr \angle s conv.
($113 = 113$)

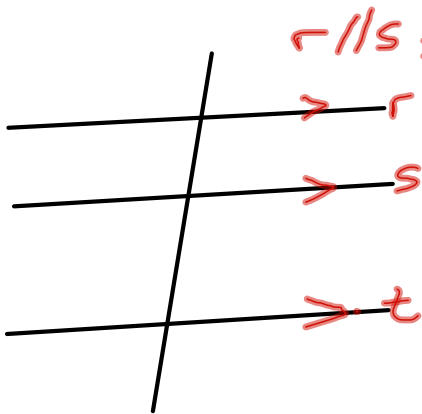
n not \parallel to p
($113 \neq 114$)

Ex 5!



Not enough info
to say $l \parallel m$.

Ex 6:



$r \parallel s, r \parallel t$ what other
conclusions can
we draw.

$s \parallel t$

(\parallel transitive thm)

thm = theorem