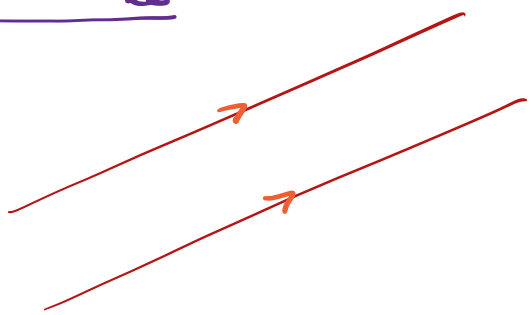
Learning Objectives:

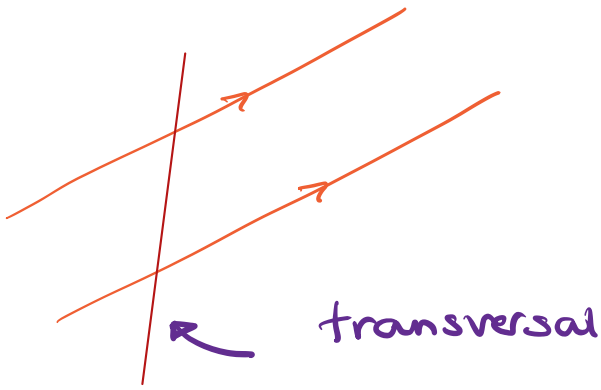
- Understand what a parallel line is
- Understand what a transversal is
- Know the FUZX rules and how to apply them to parallel line problems

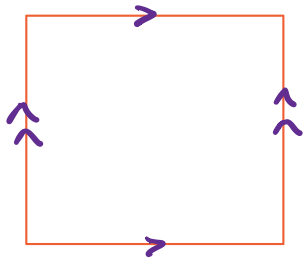
Parallel lines

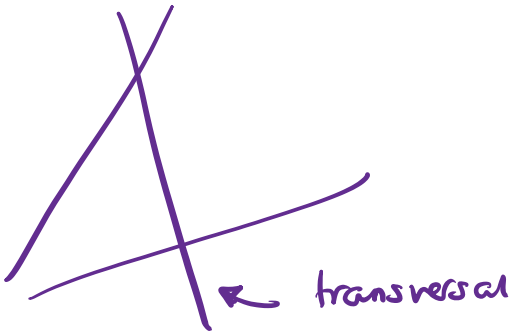
BFT



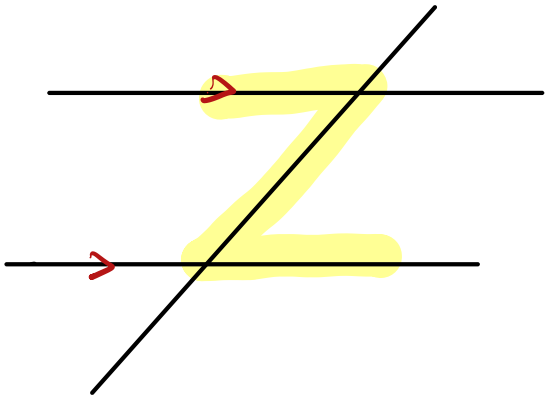
Never going to meet!

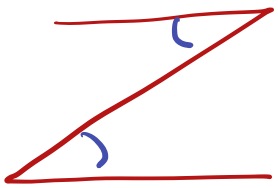






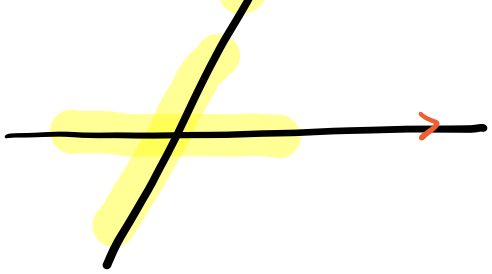
FUZX

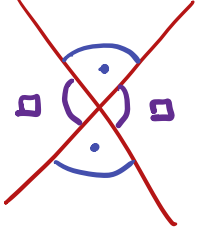




angles are the same

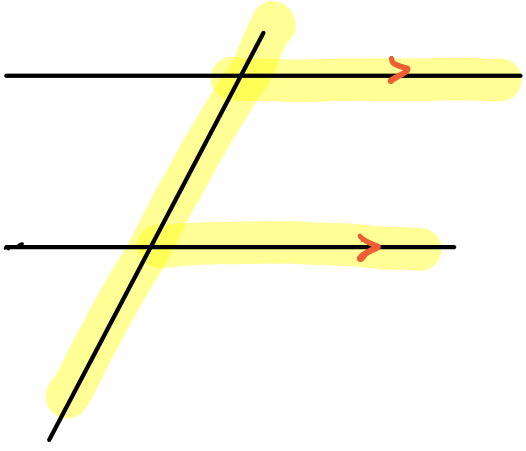
"Alternat angles"

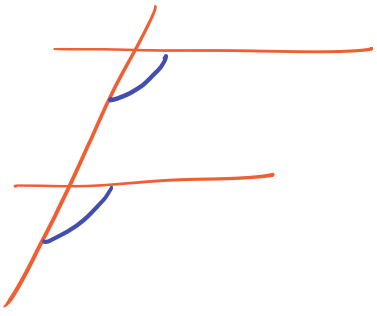




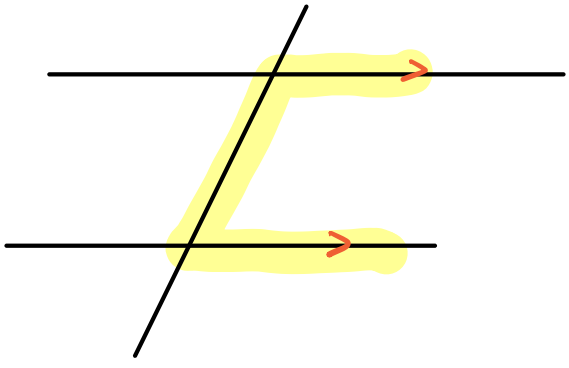
"Vertically opposite angles"

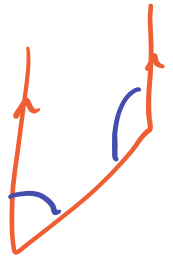
are da same





Corresponding angles "da same"

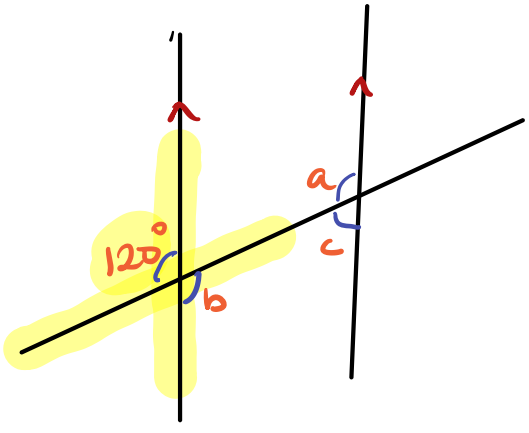


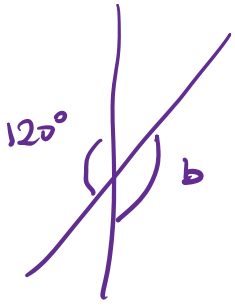


Cointerior angles

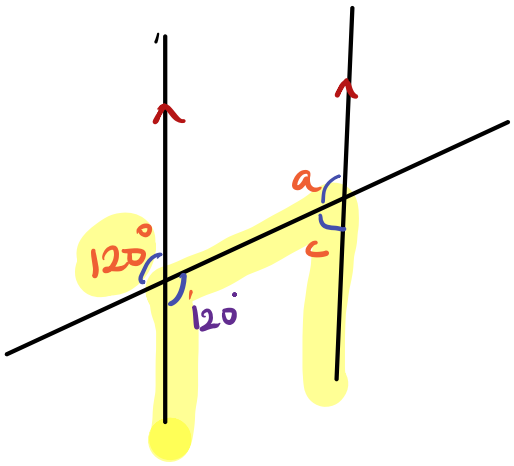
Add to 180°

eg

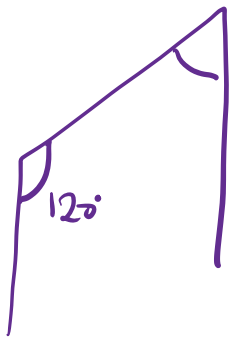




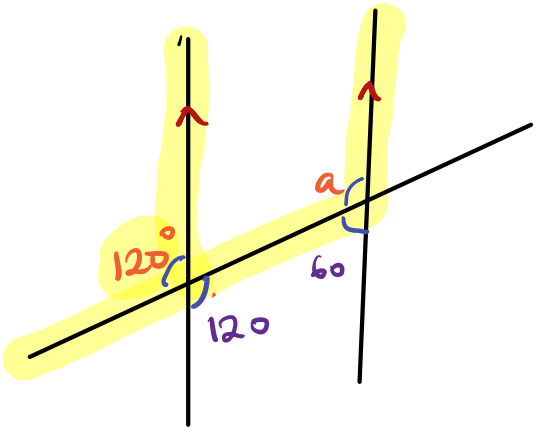
b = 120°



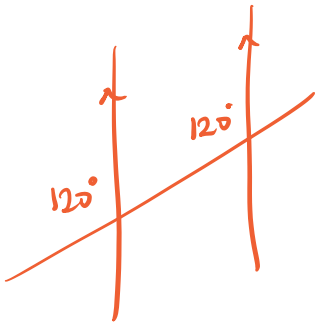
c = 60°

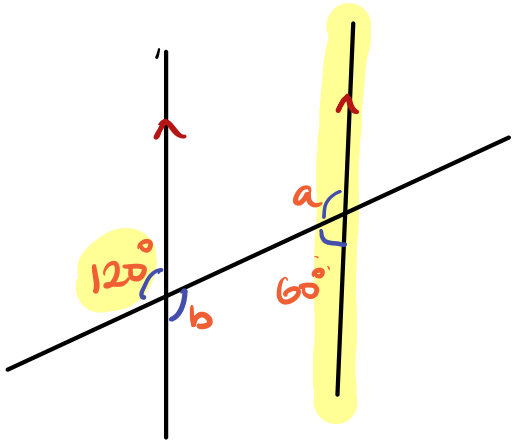


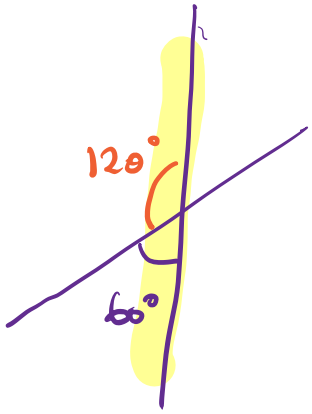
180° - 120° = 60°



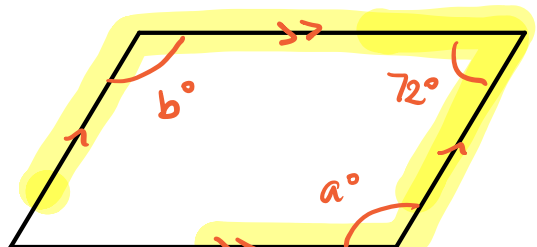
a = 120°







g



FU2 x

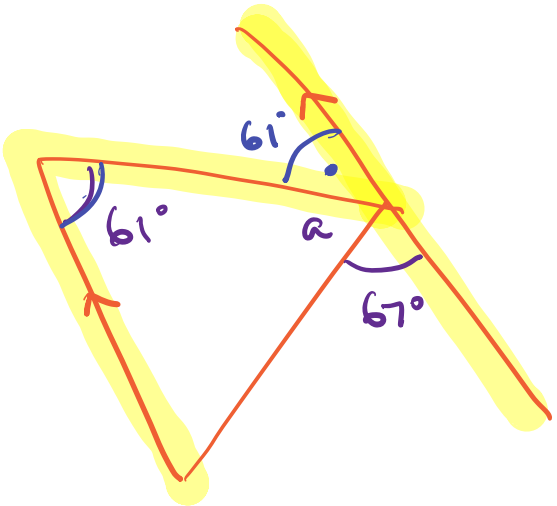
180°

$a = 108°$

$b = 108°$

$$\begin{array}{r} 180° \\ -\ 72° \\ \hline 108° \end{array}$$

eg.



$a = 52°$

$$\begin{array}{r} 67 \\ +61 \\ \hline 128° \end{array}$$

$$\begin{array}{r} 180° \\ -\ 128 \\ \hline 52° \end{array}$$