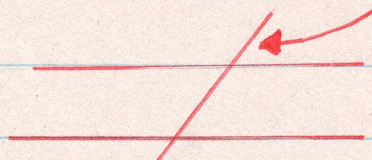
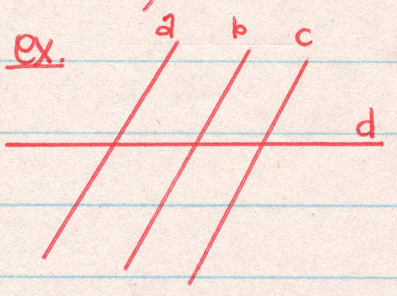


Lines Cut by a Transversal

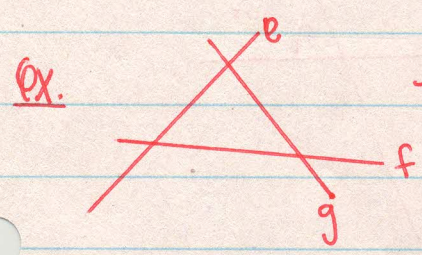
I. Transversal



Line that goes through other lines (more than one)



Line D is the transversal

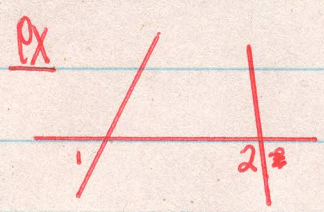


They're all transversals!

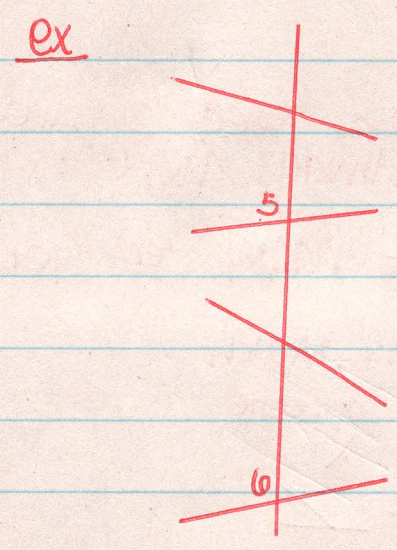
II. Angles Created by Transversal

A. Corresponding → MATCH

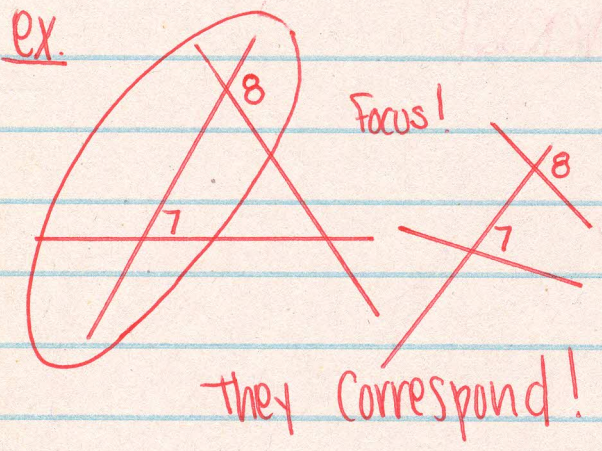
(bottom left with bottom left)



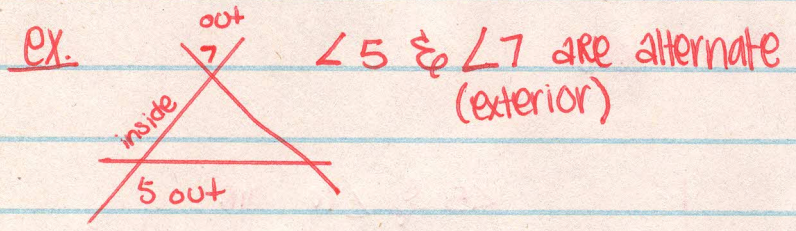
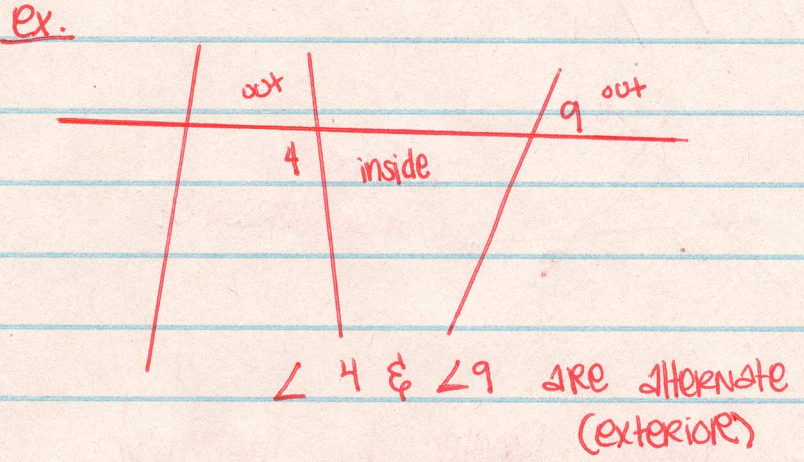
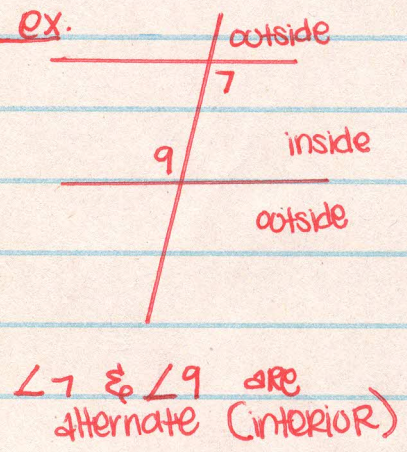
$\angle 1$ & $\angle 2$
match!
Corresponding



$\angle 5$ & $\angle 6$ are corresponding

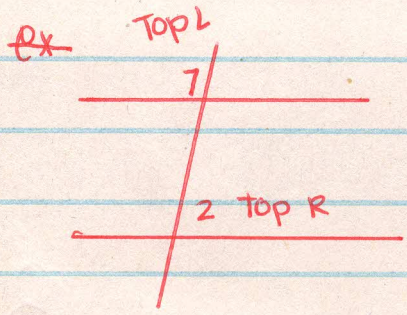


B. Alternate → OPPOSITE!



C. Vertical & Linear → Don't need 2 Lines!
Always work!

D. unlisted ... We haven't named 'em yet.



Don't Match
not opposite
not X
not
So, unlisted!

III Solving the Angles

Don't need 2 Lines
ALWAYS SOLVABLE!

Vertical
congruent

Linear
Add to equal 180°

★ If Lines ARE PARALLEL ★

Corresponding → Solvable → \cong
Alternate → Solvable → \cong
Unlisted → Solvable → Add to Equal 180°

★ If Lines ARE NOT PARALLEL ★

Corresponding ~~\cong~~
Alternate ~~\cong~~
unlisted ~~$\neq 180$~~

NOT SOLVABLE

NEVER ASSUME LINES ARE PARALLEL

3 ways to be SURE

① says "Lines are parallel"

② "m||n"
means parallel

③ Lines marked with matching arrows

