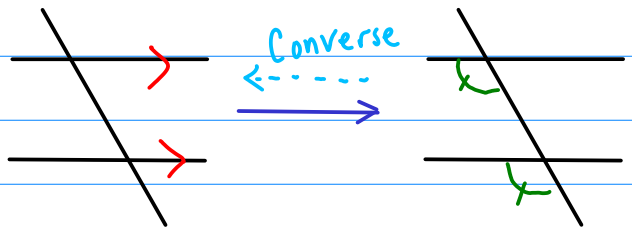
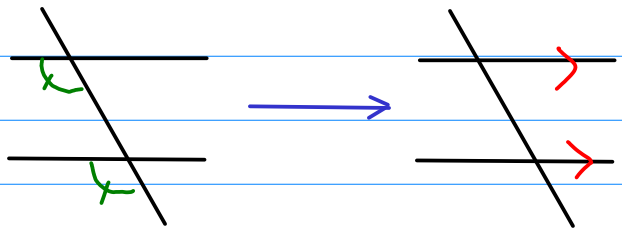
§2.6: More || Lines Conjectures

last time

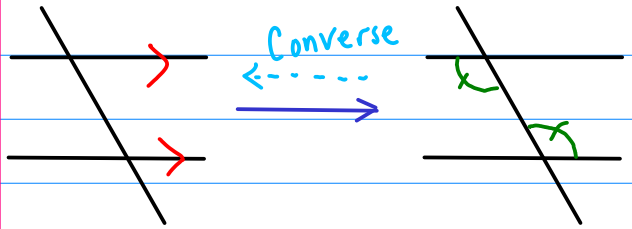


Corr. ∠'s Conjecture

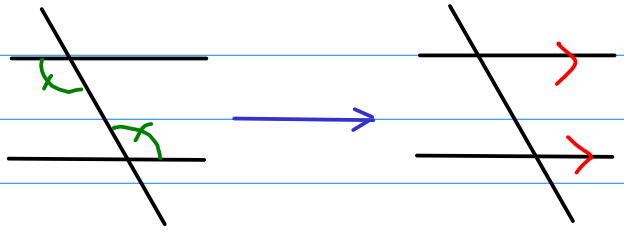
now



Converse of Corr. ∠'s Conjecture



Alt. Int. ∠'s Conjecture

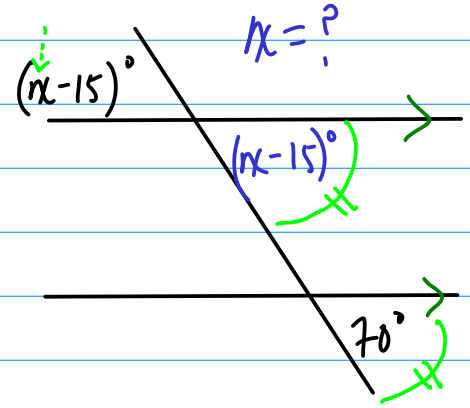


Converse of Alt. Int. ∠'s Conjecture

* **Converse of Corresponding ∠s Conjecture:** If 2 lines are cut by a transversal and corr. ∠s are $\cong$, then the lines are ||.

* **Converse of Alternate Interior ∠s Conjecture:** If 2 lines are cut by a transversal and alt. int. ∠s are $\cong$, then the lines are ||.

Ex:

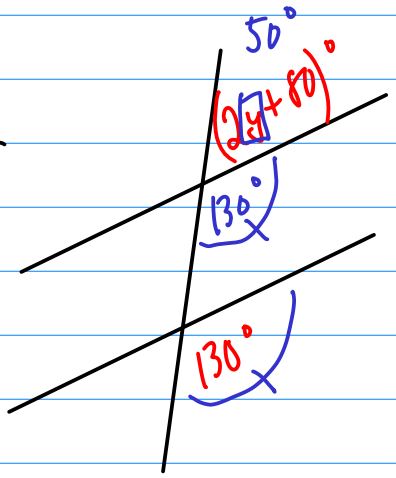


$x - 15 = 70$

$+15 \quad +15$

$x = 85$ ✓

Ex:



$2(-15) + 80$

$-30 + 80$

50

Are the lines $\parallel$ if $y = -15$

Yes