

Parallel Lines are cut by a Transversal

Solving for x

Angles are either Congruent or Supplementary

If angles are congruent (\cong),

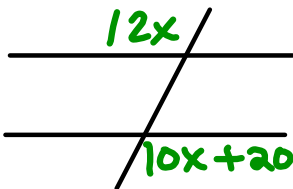
then angle = angle

Corresponding, Alternate Exterior, and Alternate Interior.

If angles are supplementary,

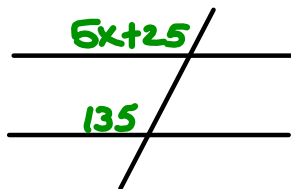
then angle + angle = 180

Same Side Interior and Same Side Exterior.

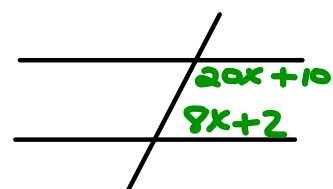


Alt Ext. \cong

$$12x = 10x + 20$$

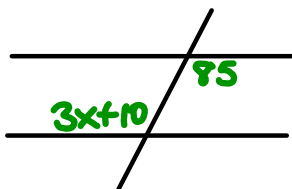


Corr. \cong

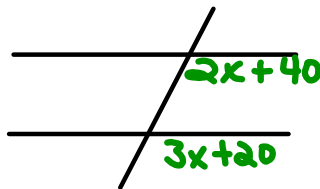


SS Int. Supp = 180

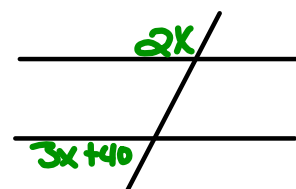
$$20x + 10 + 8x + 2 = 180$$



Alt Int. \cong



Corr. \cong



SS Ext. Supp = 180