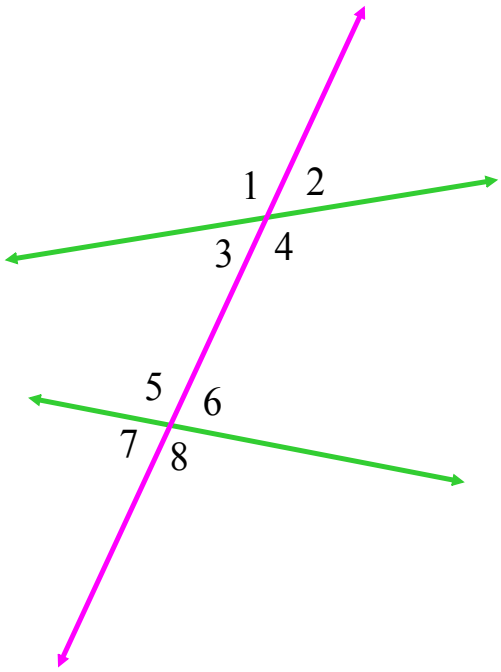
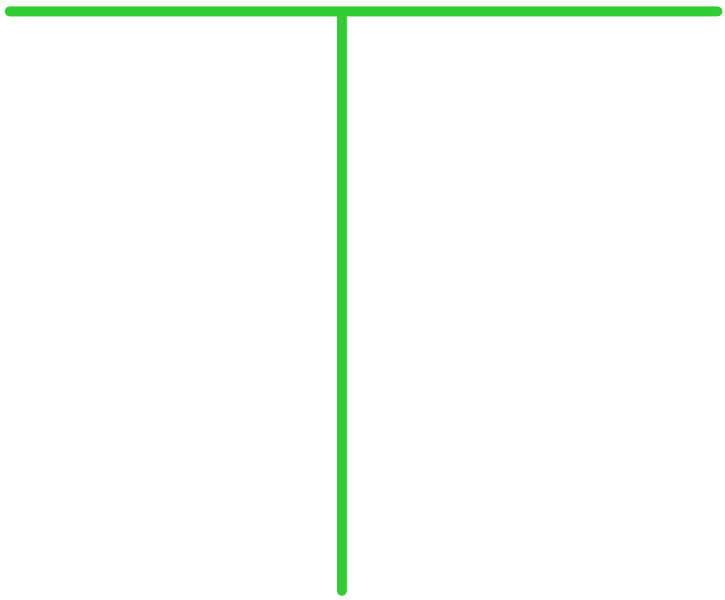
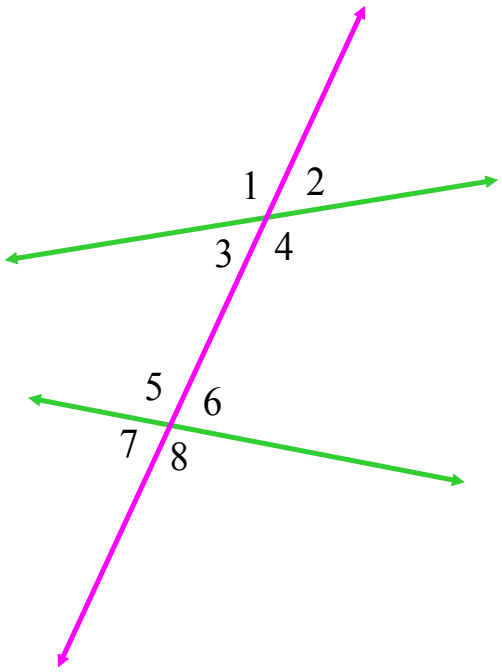
Postulate: If corresponding angles congruent then lines parallel.

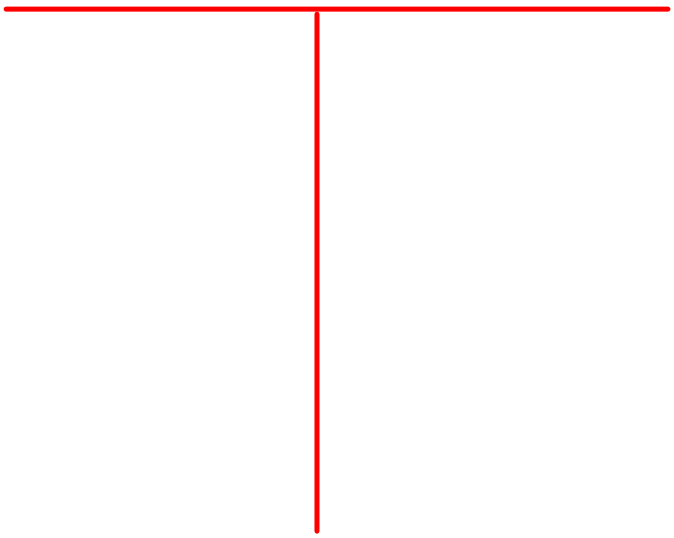
Statement: If alternate interior angles congruent then lines parallel.



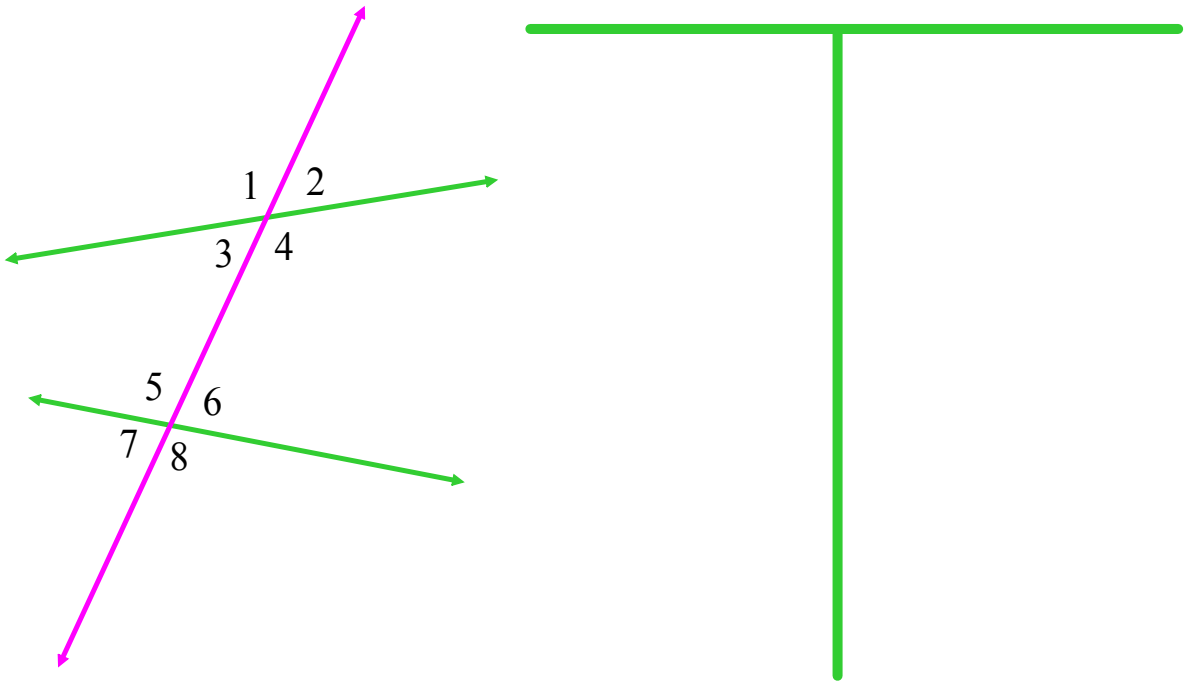


Statement: If alternate exterior angles congruent then lines parallel.

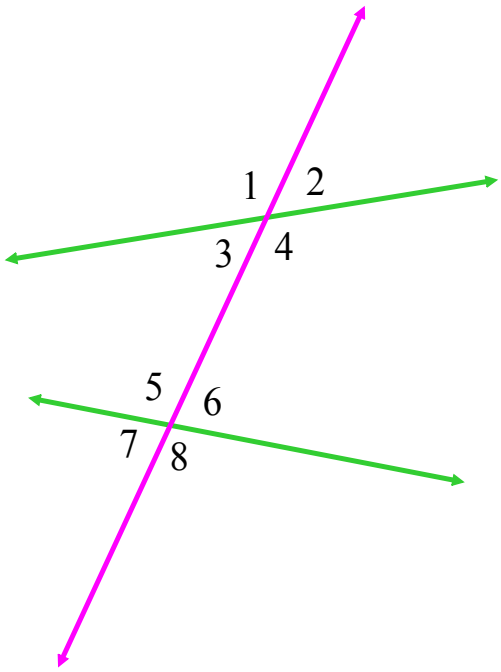


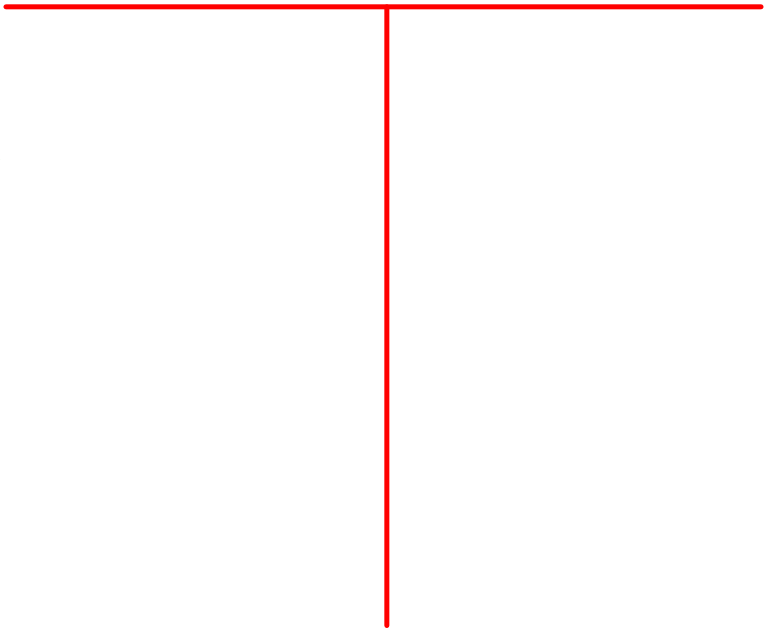


Statement: If same-side interior angles supplementary then lines parallel.

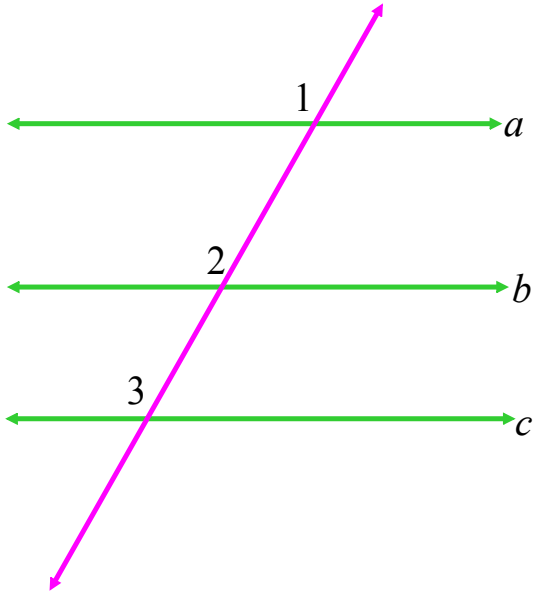


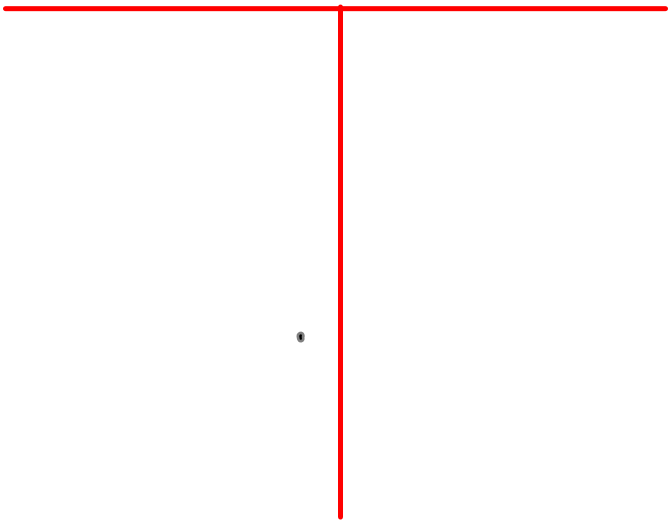
Statement: If same-side exterior angles supplementary then lines parallel.

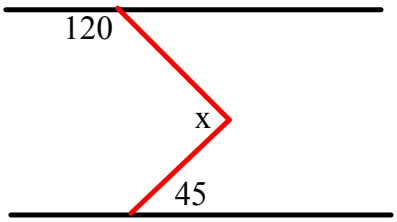


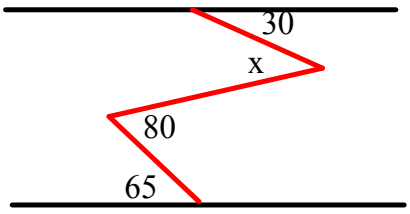


Statement: If two lines are parallel to the same line then the two lines are parallel.

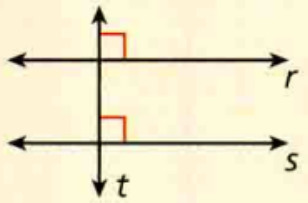




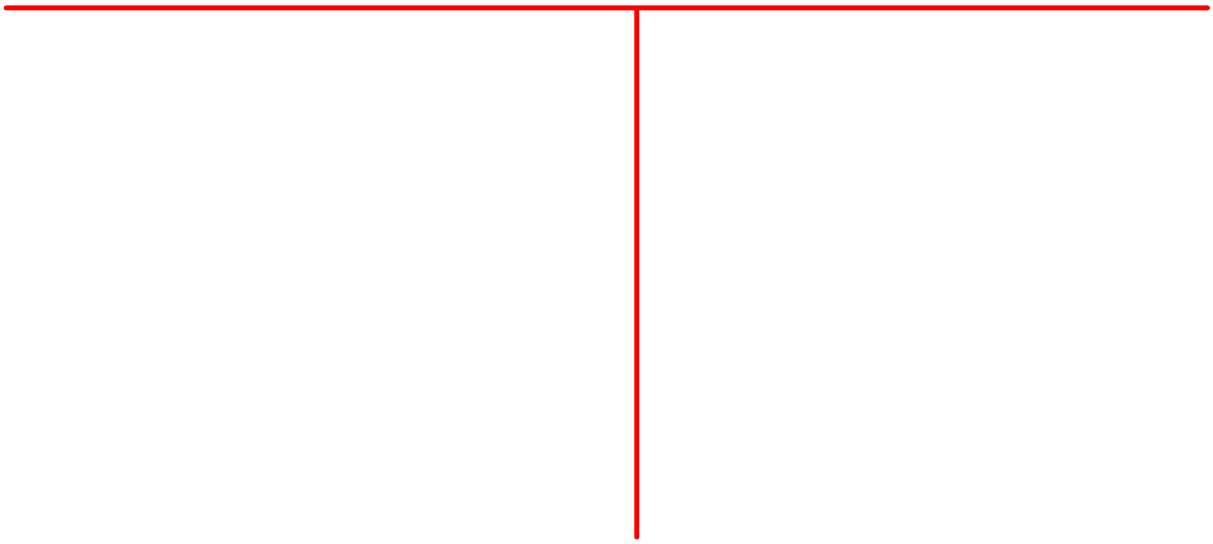




If two coplanar lines are perpendicular to the same line, then the two lines are parallel to each other. (2 lines $\perp$ to same line $\rightarrow$ 2 lines $\parallel$.)

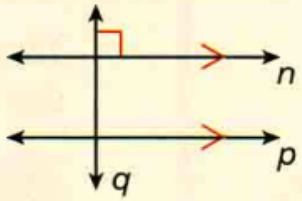


$r \parallel s$



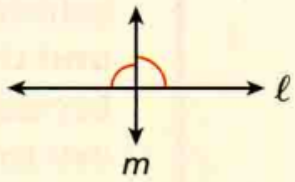
Perpendicular Transversal Theorem

In a plane, if a transversal is perpendicular to one of two parallel lines, then it is perpendicular to the other line.



$q \perp p$

If two intersecting lines form a linear pair of congruent angles, then the lines are perpendicular. (2 intersecting lines form lin. pair of $\cong \measuredangle s \rightarrow$ lines $\perp$.)



$\ell \perp m$