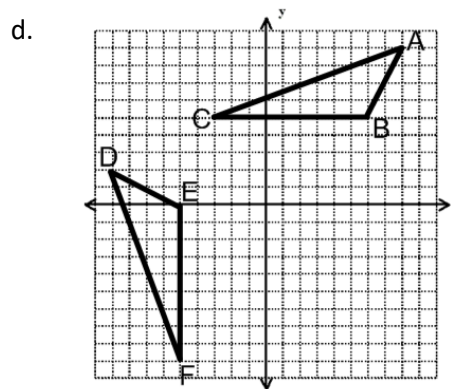
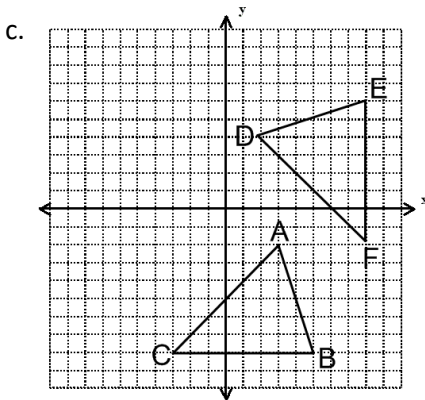
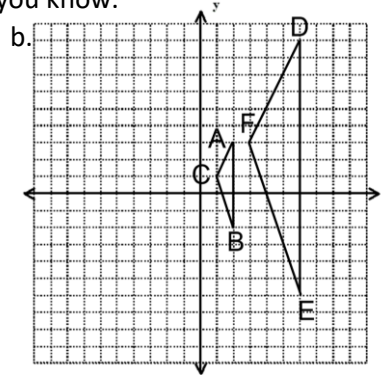
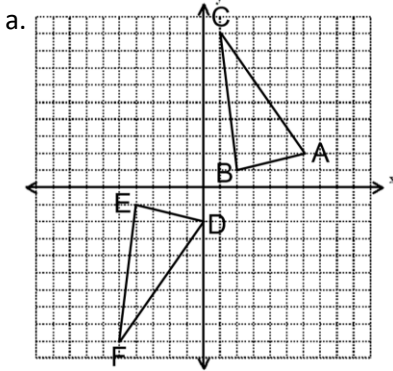


Congruence and Parallel Line Properties Test Review

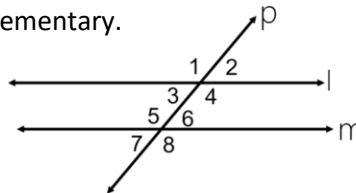
1. Explain why rigid motions create congruent figures.

2. For each of figures state if they are congruent and explain how you know.



3. Given that $l \parallel m$, prove $\angle 4$ and $\angle 6$ are supplementary.

Statement	Reason
	Given
$\angle 4 \cong \angle 8$	_____
	Definition of Congruence
	Definition of linear pairs
$m\angle 8 + m\angle 6 = 180^\circ$	_____
	Substitution
$\angle 4$ and $\angle 6$ are supplementary	_____

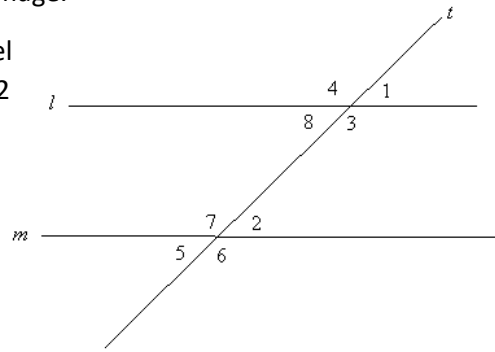


4. Given that $l \parallel m$, prove $\angle 4 \cong \angle 5$

Statement	Reason
$l \parallel m$	_____
$\angle 4 \cong \angle 8$	_____
	Vertical \angle 's
$\angle 4 \cong \angle 5$	_____

Prove the following using the given image.

5. Given that lines l and m are parallel
 Prove: angle 8 is congruent to angle 2



6. Given that lines l and m are parallel
 Prove: angle 4 and 5 are supplementary

Determine the relationship for each pair of angles. Use that relationship to solve for x .

