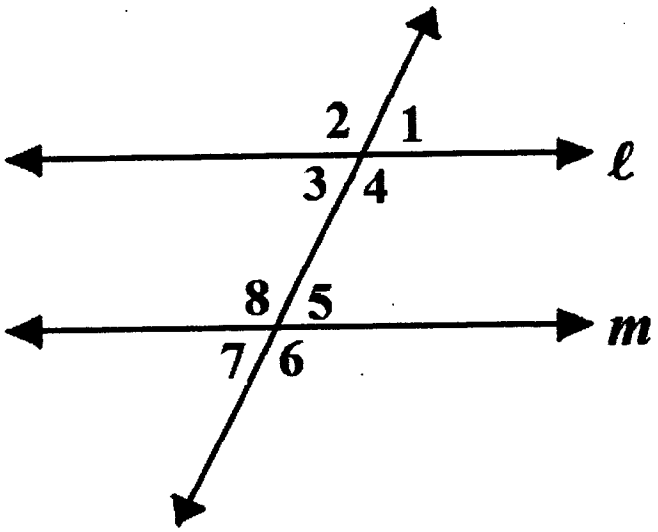
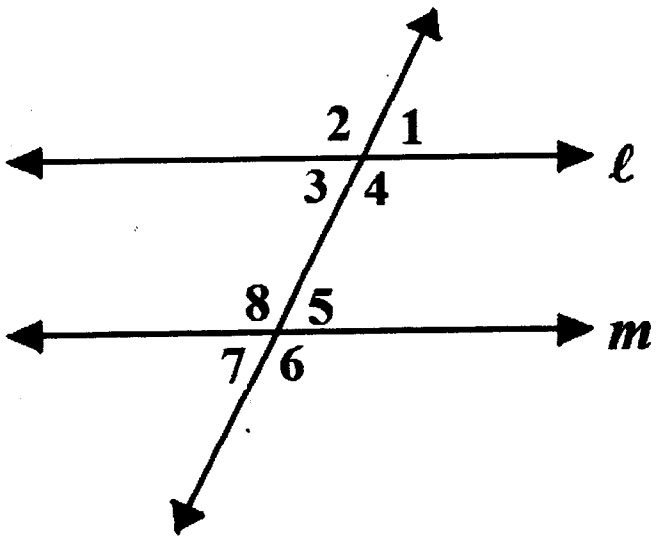
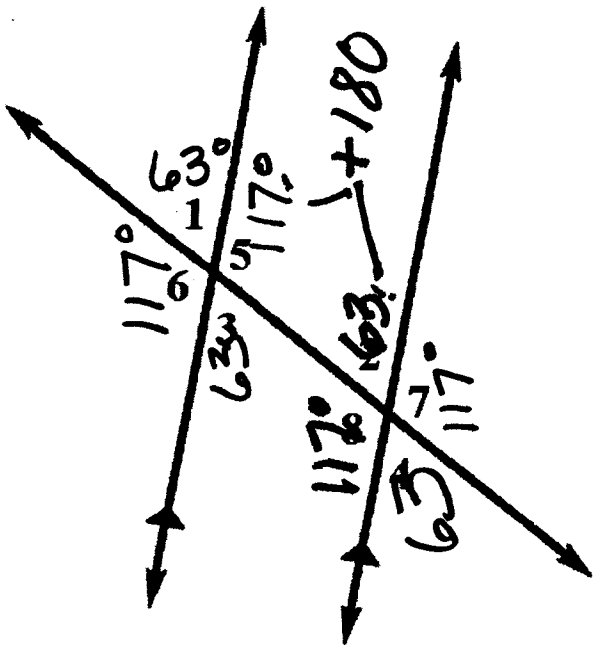
If $\angle 1 \cong \angle 5$, can we prove the lines are parallel? If so, why?



If $\angle 1 \cong \angle 3$, can we prove the lines are parallel? If so, why?



Find each angle measure given that $m\angle 1 = 63°$

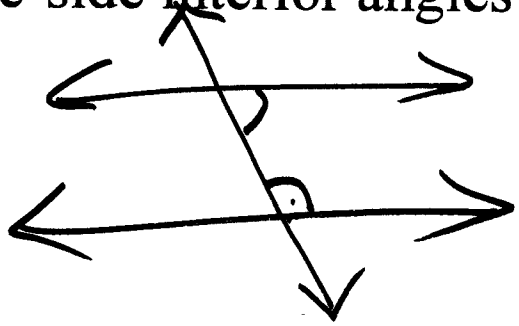


When lines are parallel:

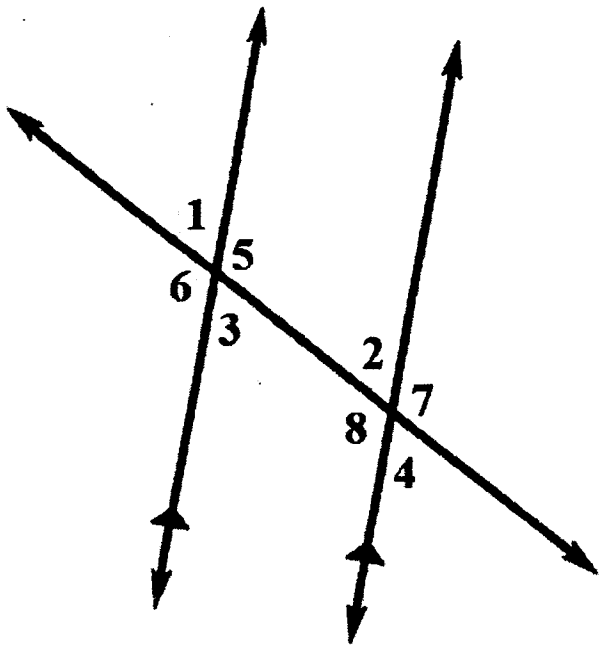
Alternate interior angles are $\cong$ (congruent)

Alternate exterior angles are $\cong$ (congruent)

Same-side interior angles are supplementary



Find each angle measure given that $m\angle 1 = 63°$



When lines are parallel:

Alternate interior angles are _____

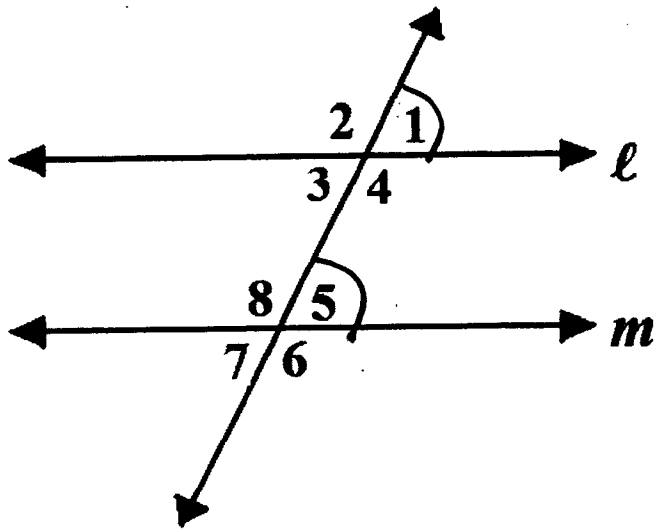
Alternate exterior angles are _____

Same-side interior angles are _____

If $\angle 1 \cong \angle 5$, can we prove the lines are parallel? If so, why?

Yes!

Corresponding Angles



If $\angle 1 \cong \angle 3$, can we prove the lines are parallel? If so, why?

No!

Vertical Angles