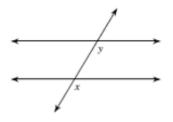
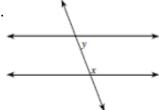
Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

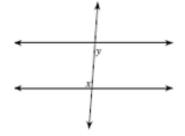
1.



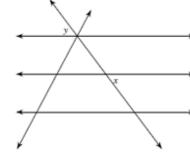
2.



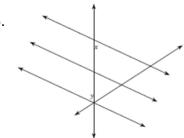
3.



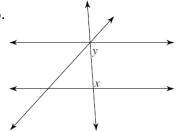
4.



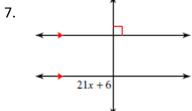
5.



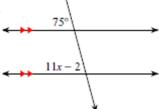
6.



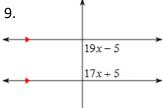
Solve for x.

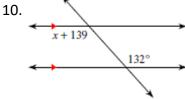


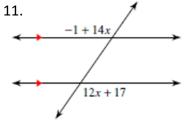
8.

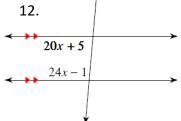


Solve for x.

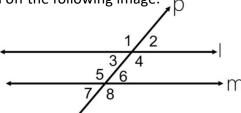








Complete the following proofs based off the following image.



13. Given that I  $\mid \mid$  m, prove  $\angle 1 \cong \angle 8$ .

14. Given that I  $\mid \mid$  m, prove  $\angle 1$  and  $\angle 7$  are supplementary.

		Statement	Reason
Statement	Reason		Given
I    m		∠1 ≅ ∠5	
	Corresponding ∠'s Postulate		Definition of Congruence
<b>∠</b> 5 ≅ <b>∠</b> 8		<b>∠</b> 5 and <b>∠</b> 7 are linear pairs	
	Transitive Property	m/5+m/7=180°	Linear pairs are supplementary
			Substitution
		∠1 and ∠7 are supplementary	

Write the following proofs.

15. Given that I  $\mid \mid$  m, prove  $\angle 4$  and  $\angle 6$  are supplementary

16. Given that I  $| \ |$  m, prove  $\angle 3 \cong \angle 6$ .