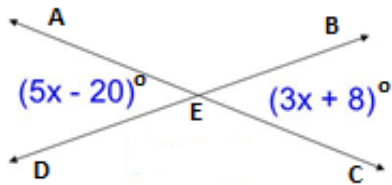


REASON BANK

Addition Property Alternate Interior Angles Theorem Alternate Interior Angles Converse Theorem Alternate Exterior Angles Theorem Alternate Exterior Angles Converse Theorem Combine Like Terms Consecutive Interior Angles Theorem Consecutive Interior Angles Converse Theorem Corresponding Angles Postulate Corresponding Angles Converse Postulate	Division Property Distributive Property Given Linear Pair Postulate Multiplication Property Simplification Substitution Property Subtraction Property Transitive Property Vertical Angles Theorem
---	--

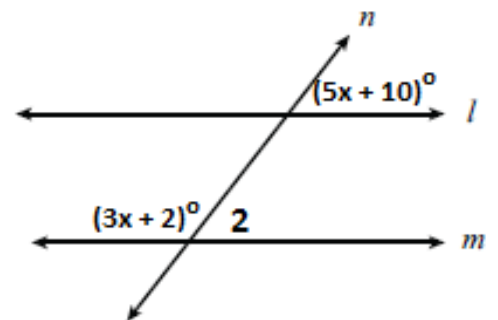
1. Given: $m\angle AED = (5x - 20)^\circ$ and $m\angle BEC = (3x + 8)^\circ$
 Prove: $m\angle BEC = 50^\circ$



Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.

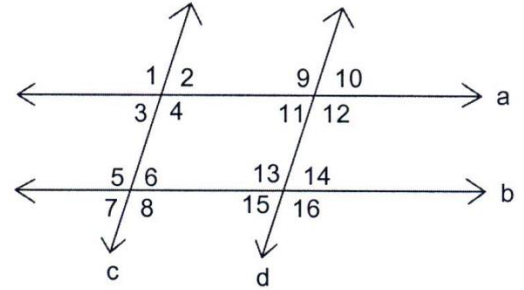
2. Given: $l \parallel m$. Please solve for x.

Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.



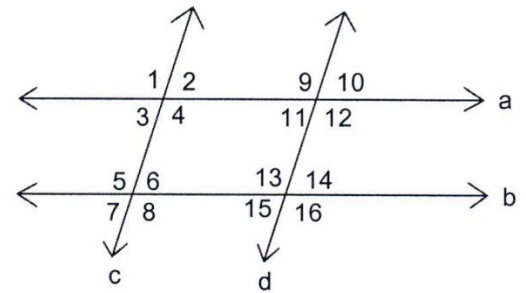
3. Given: $a \parallel b, c \parallel d, \angle 1 \cong \angle 12$
 Prove: $\angle 1 \cong \angle 13$

Statements	Reasons
1.	1.
2. $\angle 1 \cong \angle 12$	2.
3. $\angle 12 \cong \angle 13$	3.
4. $\angle 1 \cong \angle 13$	4.



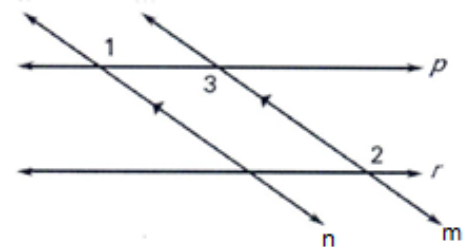
4. Given: $a \parallel b$
 Prove: $m\angle 9 + m\angle 14 = 180$

Statements	Reasons
1.	1.
2. $m\angle 9 + m\angle 11 = 180$	2.
3. $m\angle 11 \cong m\angle 14$	3.
4. $m\angle 9 + m\angle 14 = 180$	4.

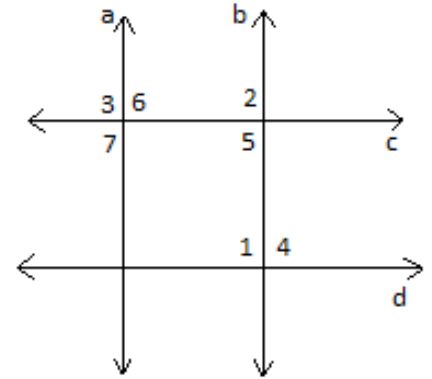


5. Given: $n \parallel m, \angle 1 \cong \angle 2$
 Prove: $p \parallel r$

Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

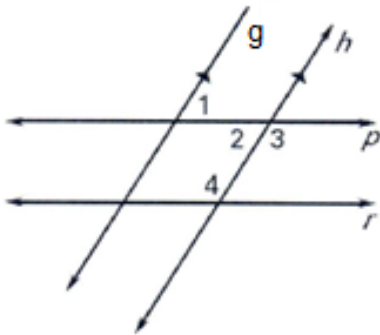


6. Given: $a \parallel b, c \parallel d$
 Prove: $\angle 7 \cong \angle 4$



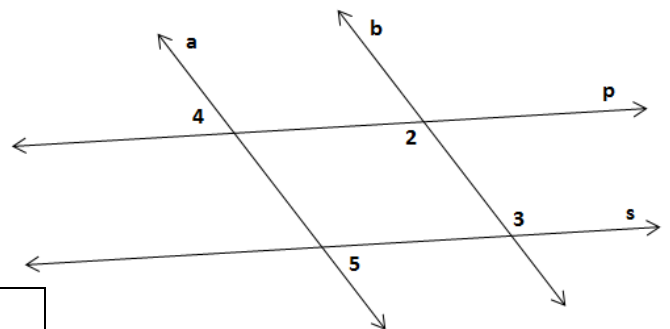
Statements	Reasons
1.	1.
2. $\angle 7 \cong \angle 5$	2.
3. $\angle 5 \cong \angle 4$	3.
4.	4.

7. Given: $g \parallel h, \angle 1$ and $\angle 4$ are supplementary
 Prove: $p \parallel r$



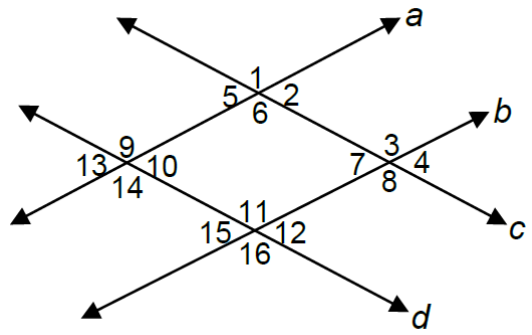
Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.
5.	5.

8. Given: $\angle 4 \cong \angle 5$
 Prove $\angle 2 \cong \angle 3$



Statements	Reasons
1.	1.
2.	2.
3.	3.

9. Given: $a \parallel b, c \parallel d$
 Prove: $m\angle 2 + m\angle 11 = 180$



Statements	Reasons
1.	1. Given
2. $\angle 2$ and $\angle 3$ are supplementary	2.
3.	3.
4.	4.
5. $m\angle 2 + m\angle 11 = 180$	5.