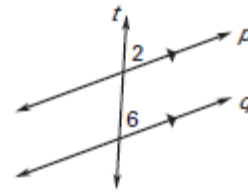




- I can identify angle pairs formed by a transversal.
- I can use the angles formed by parallel lines and transversals to solve algebraic problems.

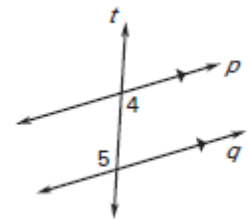
Corresponding Angles Postulate

If two parallel lines are cut by a transversal, then the pairs of corresponding angles are _____.



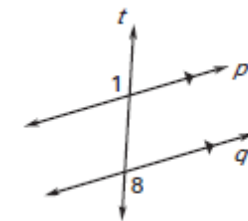
Alternate Interior Angles Theorem

If two parallel lines are cut by a transversal, then the pairs of alternate interior angles are _____.



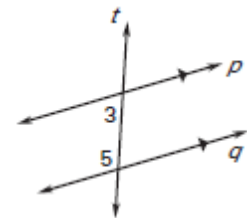
Alternate Exterior Angles Theorem

If two parallel lines are cut by a transversal, then the pairs of alternate exterior angles are _____.

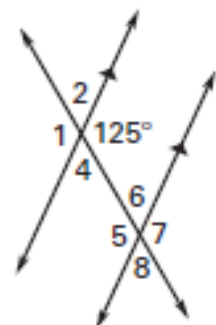


Consecutive Interior Angles Theorem

If two parallel lines are cut by a transversal, then the pairs of consecutive interior angles are _____.

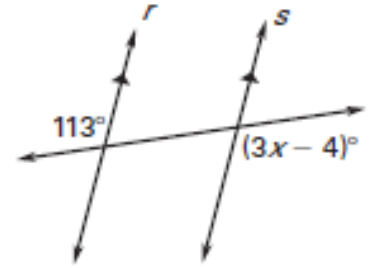


Example 1: The measure of 3 of the numbered angles is 125° . Identify which of the angles are 125° . Give a reason for each.

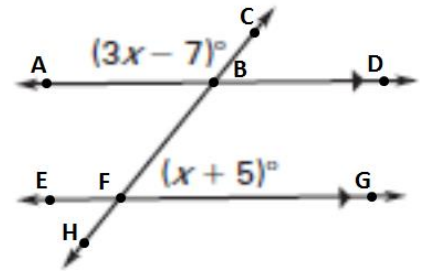


Example 2:

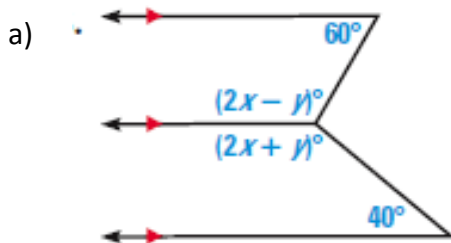
a) Find the value of x . Give a reason for each step when solving.



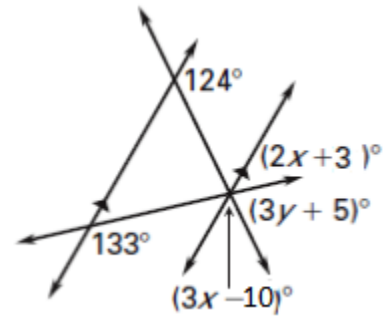
b) Find the value of x . Give a reason for each step when solving.



Example 3: Find the values of x and y .



b)



Example 4: In the diagram, $m \parallel n$. Find the value of x . Explain how you obtained your answer.

