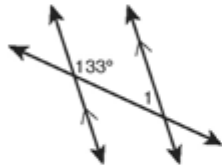


LESSON
3-2

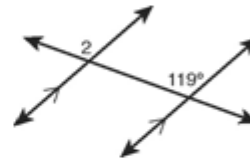
Practice B

Angles Formed by Parallel Lines and Transversals

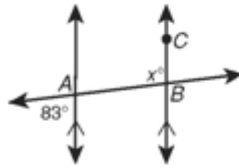
Find each angle measure.



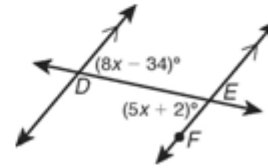
1. $m\angle 1$ _____



2. $m\angle 2$ _____



3. $m\angle ABC$ _____



4. $m\angle DEF$ _____

Complete the two-column proof to show that same-side exterior angles are supplementary.

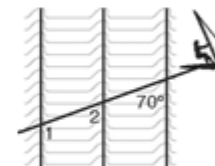
5. Given: $p \parallel q$

Prove: $m\angle 1 + m\angle 3 = 180^\circ$

Proof:

Statements	Reasons
1. $p \parallel q$	1. Given
2. a. _____	2. Lin. Pair Thm.
3. $\angle 1 \cong \angle 2$	3. b. _____
4. c. _____	4. Def. of $\cong \angle$
5. d. _____	5. e. _____

6. Ocean waves move in parallel lines toward the shore. The figure shows Sandy Beaches windsurfing across several waves. For this exercise, think of Sandy's wake as a line. $m\angle 1 = (2x + 2y)^\circ$ and $m\angle 2 = (2x + y)^\circ$. Find x and y .



$x =$ _____

$y =$ _____