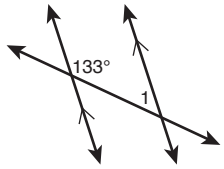
Name _____ Date _____ Class _____

LESSON 3-2

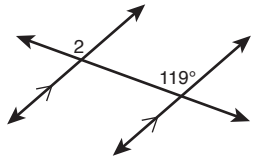
Practice B

Angles Formed by Parallel Lines and Transversals

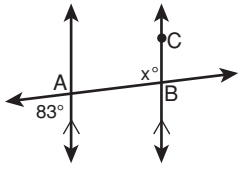
Find each angle measure.



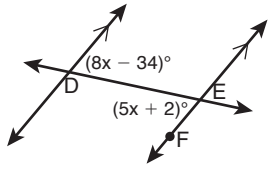
1. m∠1 _____



2. m∠2 _____



3. m∠*ABC* _____



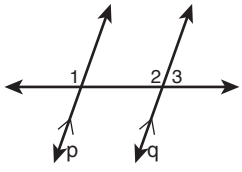
4. m∠*DEF* _____

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

5. Given: $p \parallel q$

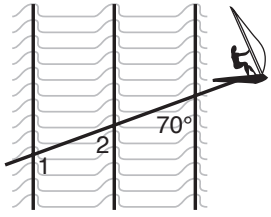
Prove: m∠1 + m∠3 = 180°

Proof:



Statements	Reasons
1. $p \parallel q$	1. Given
2. **a.** _____	2. Lin. Pair Thm.
3. ∠1 ≅ ∠2	3. **b.** _____
4. **c.** _____	4. Def. of ≅ ∡s
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∠1 = (2*x* + 2*y*)° and m∠2 = (2*x* + *y*)°. Find *x* and *y*.



x = _____

y = _____