

# Lesson 11: Unknown Angle Proofs—Proofs of Known Facts

## Classwork

### Opening Exercise

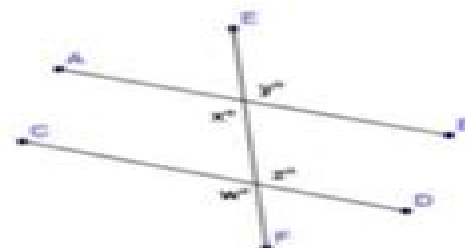
A *proof* of a mathematical statement is a detailed explanation of how that statement follows logically from other statements already accepted as true.

A *theorem* is a mathematical statement with a proof.

### Discussion

Once a theorem has been proved, it can be added to our list of known facts and used in proofs of other theorems. For example, in Lesson 9, we proved that *vertical angles are of equal measure*, and we know (from earlier grades and by paper cutting and folding) that *if a transversal intersects two parallel lines, alternate interior angles are of equal measure*. How do these facts help us prove that corresponding angles are equal in measure?

In the diagram to the right, if you are given that  $\overline{AB} \parallel \overline{CD}$ , how can you use your knowledge of how vertical angles and alternate interior angles are equal in measure to prove that  $x = w$ ?



You now have available the following facts:

- Vertical angles are equal in measure.
- Alternate interior angles are equal in measure.
- Corresponding angles are equal in measure.

# Blue Pelican Math Geometry Lesson 11

**Peipei Pang**



## **Blue Pelican Math Geometry Lesson 11:**

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The Oxford English Dictionary ,1989      *Paperbound Books in Print* ,1971-07      Books in Print Supplement ,2002

**Geometry** ,1998      **Elements of Mathematics** ,1971      *Practice Geometry* Cleo Borac,Silviu Borac,2015-08-20 About

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