

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

## Classwork

### Opening Exercise

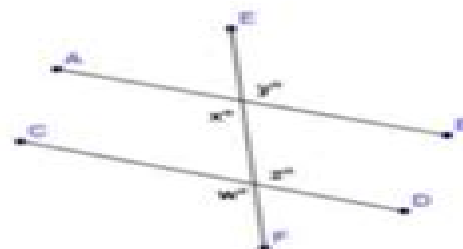
A *proof* of a mathematical statement is a detailed explanation of how that statement follows logically from other statements already accepted as true.

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

**JR Anderson**



## Blue Pelican Math Geometry Lesson 11:

**Forthcoming Books** Rose Arny, 2002-04      **Children's Books in Print** R R Bowker Publishing, Bowker, 1999-12

**El-Hi Textbooks & Serials in Print, 2005** ,2005      *Microtimes* ,1997      *Children's Books in Print*, 2007 ,2006

**The Oxford English Dictionary** ,1989      **Paperbound Books in Print** ,1971-07      **Geometry** ,1998      **Elements of Mathematics** ,1971      Practice Geometry Cleo Borac, Silviu Borac, 2015-08-20 About Competitive Mathematics for Gifted Students This series provides practice materials and short theory reminders for students who aim to excel at problem solving Material is introduced in a structured manner each new concept is followed by a problem set that explores the content in detail Each book ends with a problem set that reviews both concepts presented in the current volume and related topics from previous volumes The series forms a learning continuum that explores strategies specific to competitive mathematics in depth and breadth Full solutions explain both reasoning and execution Often several solutions are contrasted The problem selection emphasizes comprehension critical thinking observation and avoiding repetitive and mechanical procedures Ready to participate in a math competition such as AMC 8 AMC 10 Math Kangaroo in USA Math Leagues USAMTS or AIME This series will open the doors to consistent performance About Level 3 This level of the series is designed for students who can solve linear equations are fluent with fractions and can factor into primes The problem sets are designed to strengthen specific areas where we know students have difficulty on AMC 8 and AMC 10 The level 3 books are a strong preparation for AMC 8 and a partial preparation for AMC 10 and AIME Level 3 consists of Word Problems volume 9 Arithmetic and Number Theory volume 10 Operations and Algebra volume 11 Geometry volume 12 and Combinatorics volume 13 On the contest list for this level MATHCOUNTS Math Kangaroo levels 5 6 and 7 8 MOEMS M Purple Comet AMC 8 AMC 10 Their complexity makes these problem sets useful for preparing the AIME in the long run About Volume 12 Geometry This workbook is targeted at students who have not yet taken a standard geometry course We explore a number of contest topics from an intuitive hands on perspective The topics included are competition specific      Geometry in Space Randal Charles John Nixon, 1888      Mathematics Mark David Phillips, 2016      *Geometry & Trigonometry* Ron Bowe, 1992      **Mathematics** ,1999      **Mathematics Geometry** Jurgens Basson, 2020      Mathematics for Year 11 Robert C. Haese, 1998      **Mathematics** ,1999      **Mathematics for Year 11** Robert C. Haese, Sandra H. Haese, 2001      *Mathematics Geometry Solutions* Jurgens Basson, 2020

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Blue Pelican Math Geometry Lesson 11** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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