# Before class starts

- **Take out your homework and glossary words. I will come around to give you credit.**

- **I will SKIP you if you are not ready!**
  - **This means you do not get credit for your work today.**

- **Warm-up goes in your homework notebook.**

Warm-Up: Use your glossary definitions (10 minutes)

Classify the relationship between each pair of angles as <u>alternate interior, alternate exterior, corresponding or consecutive interior angles</u>. WHY?

a) <4 and <8

b) <2 and <3
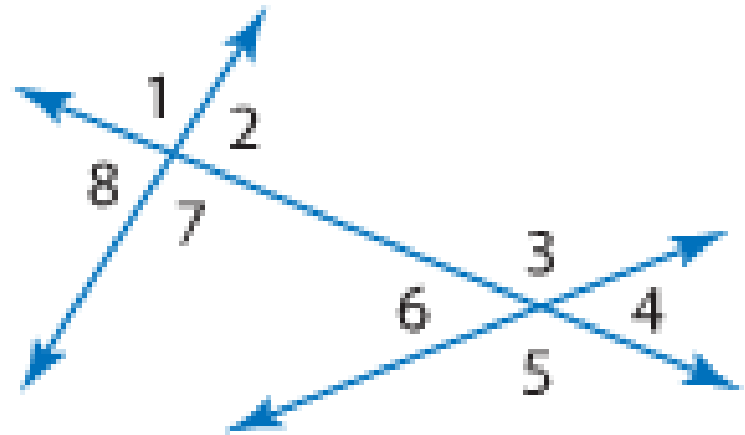
Warm-Up

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?
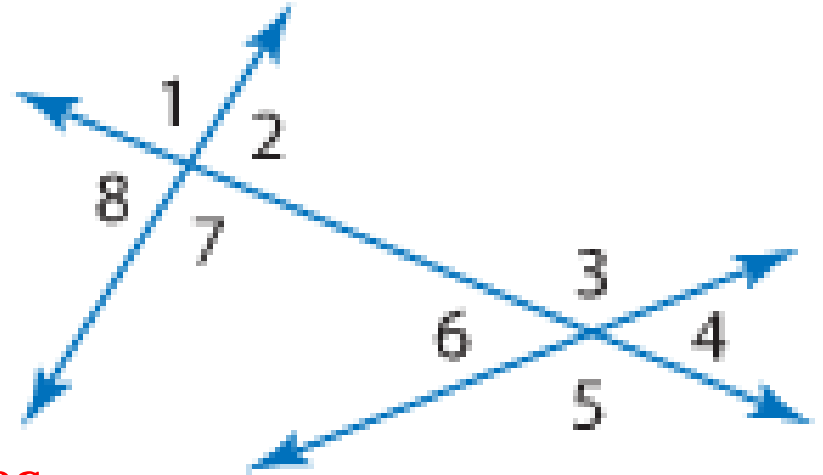
a) <4 and <8
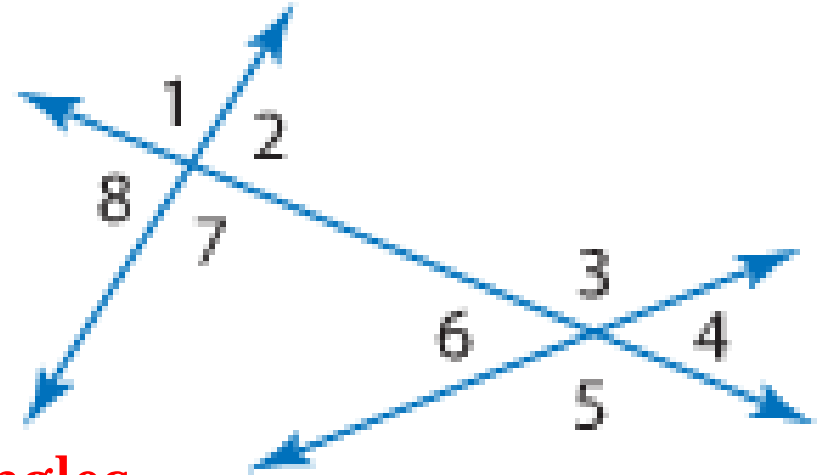
Answer: Alternate exterior angles
Why?
* Both angles are outside the two lines.
* The angles are on opposite sides of the transversal.

Warm-Up

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

b) <2 and <3

Answer: Consecutive interior angles
Why?
* Both angles are inside the two lines.
* The angles are on the same side of the transversal.

Essential Skill 1: Geometry Basics

LT 1.1 Parallel Lines & Transversals

Learning Objective

I will be able to . . .

*Identify the relationship between two lines

*Name angle pairs formed by parallel lines and a transversal.

LT 1.1 Glossary (continued)
on PG.7 in your notes

NAME _____ DATE _____ PERIOD _____

LT 1.1 Glossary *(continued)*
2) Transversal Angle Pair Relationships

This is an alphabetical list of the key vocabulary terms you will learn.
As you study the learning target, remember to review the vocabulary before the exams.

LT 1.1 Glossary (Continued)
2) Transversal Angle Pair Relationships

- **Interior angles**
- **Exterior angles**
- **Consecutive interior angles**
- **Alternate interior angles**
- **Alternate exterior angles**
- **Corresponding angles**

Example 2

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?
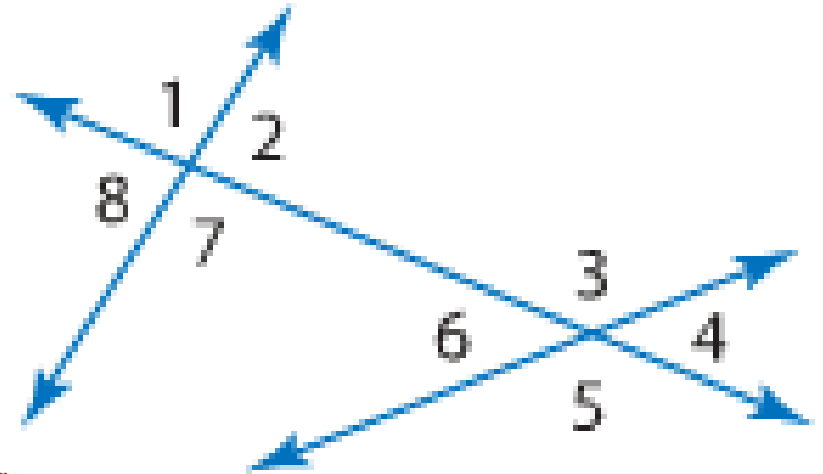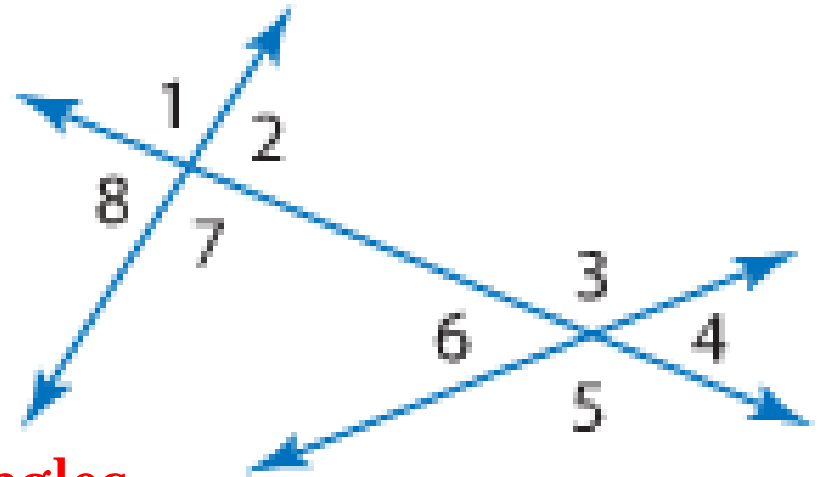
a) <1 and <5

Answer: Alternate exterior angles
Why?
* Both angles are outside the two lines.
* The angles are on opposite sides of the transversal.

Example 2

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?
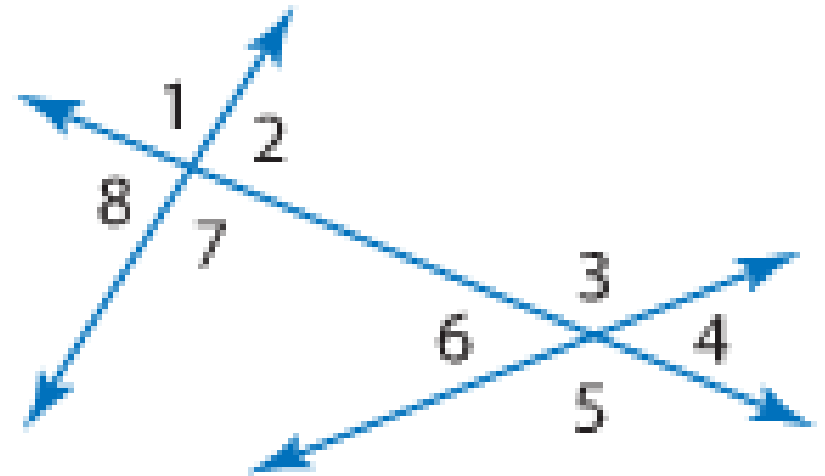

b) <6 and <7

Answer: Consecutive interior angles
Why?
* Both angles are inside the two lines.
* The angles are on the same side of the transversal.

Example 2

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

c) <2 and <4

Answer: Corresponding angles
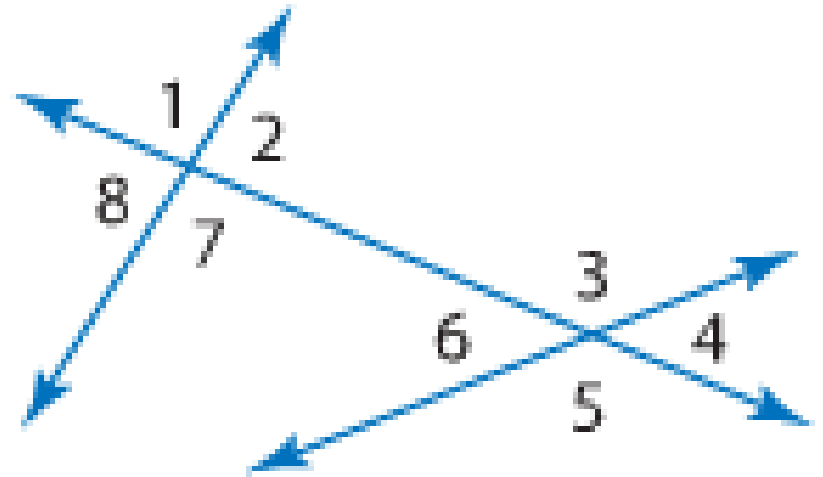Why?
* One angle is inside the two lines and one angle is outside the two lines.
* The angles are on the same side of the transversal.

Example 2

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

d) <2 and <6

Answer: Alternate interior angles
Why?
* Both angles are inside the two lines.
* The angles are on the opposite sides of the transversal.

Example 2a: You try!

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?
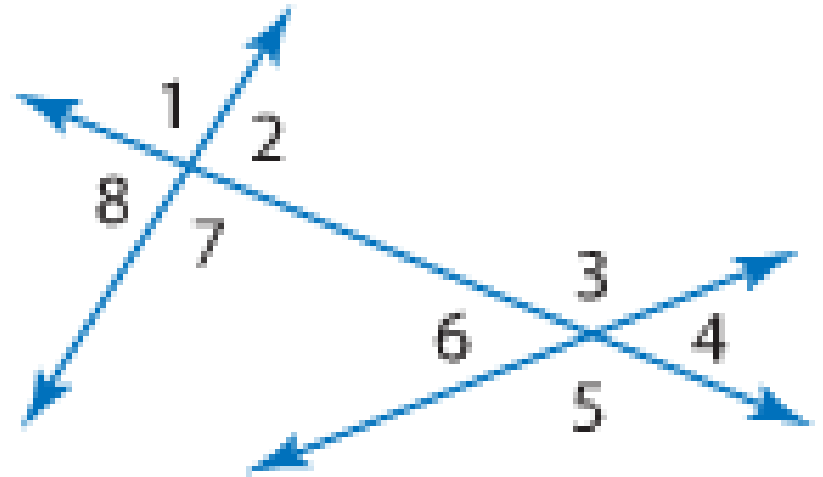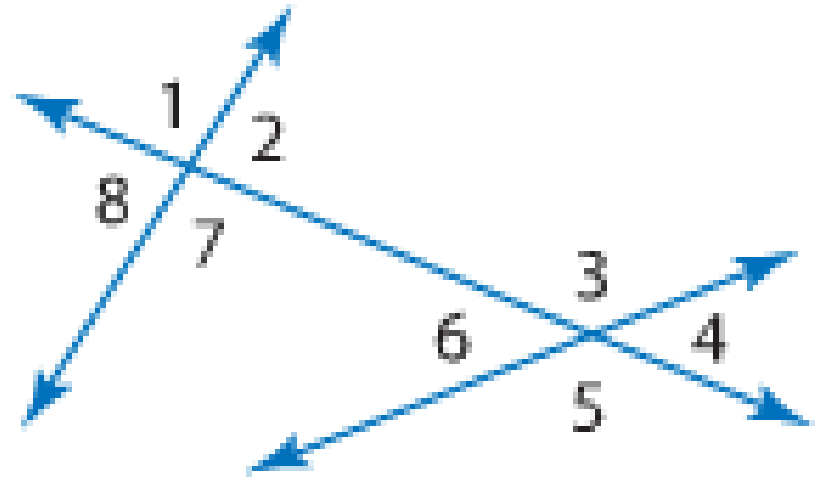
a) <3 and <7

Answer: Alternate interior angles
Why?
* Both angles are inside the two lines.
* The angles are on the opposite sides of the transversal.

Example 2a: You try!

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

b) <5 and <7
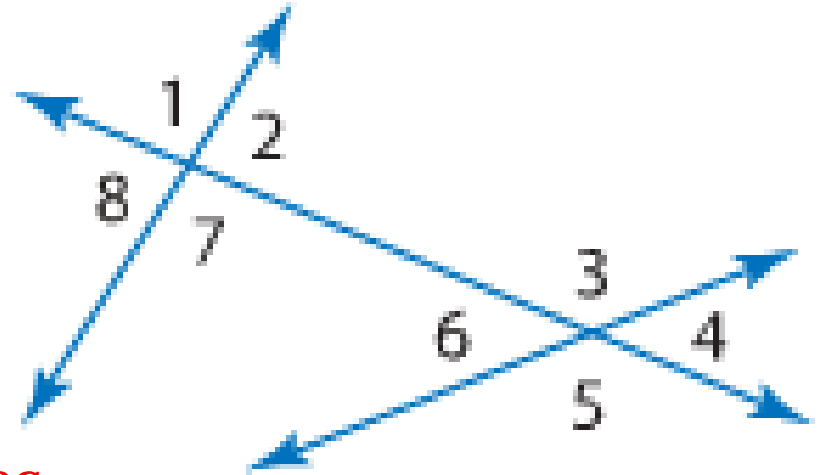
Answer: Corresponding angles
Why?
* One angle is inside the two lines and one angle is outside the two lines.
* The angles are on the same side of the transversal.

Example 2a: You try!

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

c) <4 and <8
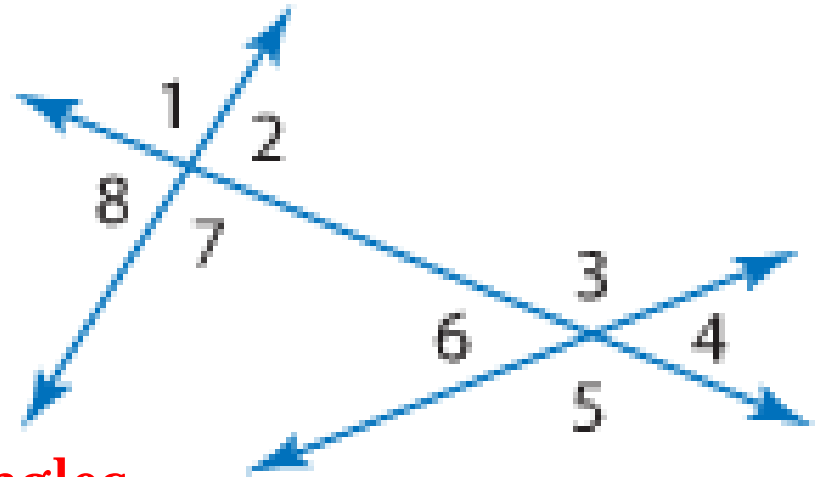
Answer: Alternate exterior angles
Why?
* Both angles are outside the two lines.
* The angles are on opposite sides of the transversal.

Example 2a: You Try! continued

Classify the relationship between each pair of angles as alternate interior, alternate exterior, corresponding or consecutive interior angles. WHY?

d) <2 and <3

Answer: Consecutive interior angles
Why?
* Both angles are inside the two lines.
* The angles are on the same side of the transversal.

Example 3: Multiple transversals

Identify the transversal connecting each pair of angles in the photo. Then classify the relationship between each pair of angles.

a) <1 and <3

First: Redraw only what you need!

Answer:
    transversal *t* connect <1 and <3
    <1 and <3 are alternate exterior angles
WHY?
    * Both angles are outside the two lines.
    * The angles are on opposite sides of the transversal.

Example 3: Multiple transversals

Identify the transversal connecting each pair of angles in the photo. Then classify the relationship between each pair of angles.

a) <5 and <6

First: Redraw only what you need!

Answer:
    transversal *k* connect <5 and <6
    <5 and <6 are consecutive interior angles
WHY?
    *** Both angles are inside the two lines.**
    *** The angles are on the same side of the transversal.**

Example 3: Multiple transversals

Identify the transversal connecting each pair of angles in the photo. Then classify the relationship between each pair of angles.

a) <2 and <6

First: Redraw only what you need!

Answer:
    transversal *l* connect <2 and <6
    <2 and <6 are corresponding angles
WHY?
    * One angle is inside the two lines and
    one angle is outside the two lines.
    * The angles are on the same side of the
    transversal.

Example 3a: Multiple transversals

Identify the transversal connecting each pair of angles in the photo. Then classify the relationship between each pair of angles.

a) <3 and <5

b) <2 and <8

c) <5 and <7

c) <2 and <9

HW: On my DP

www.ccasillas.weebly.org

1) Error Analysis on your warm-up (All students)
2) #21-37 odd

HONORS:
#25-37 odd
#46-49 all