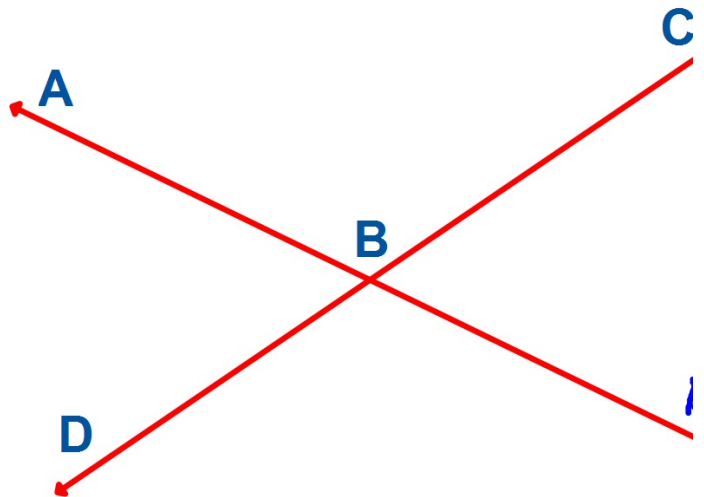


BELLRINGER

Name a pair of vertical angles.

Name a pair of adjacent angles.

Name a linear pair.

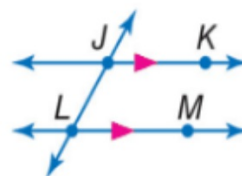


	This Class	My Other Class
Section 1	72%	44%
Section 2	68%	40%

3-1 Parallel Lines and Transversals

Key Concepts Parallel

Parallel lines are coplanar lines that do not intersect.



Arrows are used to indicate that lines are parallel.

Transversal - A line that intersects two or more lines.

2.1 Parallel Lines and Transversals

Key Concept Transversal Angle Pair Relationships

Four **interior angles** lie in the region between lines q and r .

$\angle 3$ $\angle 4$ $\angle 5$ $\angle 6$

Four **exterior angles** lie in the two regions that are not between lines q and r .

$\angle 1$ $\angle 2$ $\angle 7$ $\angle 8$

Consecutive interior angles are interior angles that lie on the same side of transversal t .

$\angle 4$ and $\angle 5$
 $\angle 3$ and $\angle 6$

Alternate interior angles are nonadjacent interior angles that lie on opposite sides of transversal t .

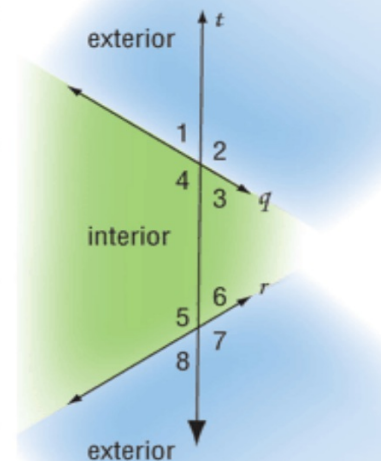
$\angle 3$ and $\angle 5$
 $\angle 4$ and $\angle 6$

Alternate exterior angles are nonadjacent exterior angles that lie on opposite sides of transversal t .

$\angle 1$ and $\angle 7$
 $\angle 2$ and $\angle 8$

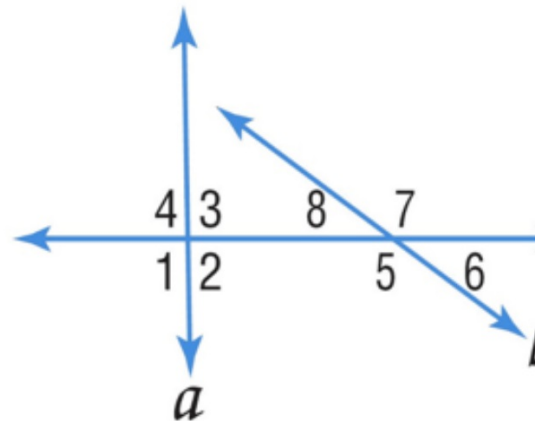
Corresponding angles lie on the same side of transversal t and on the same side of lines q and r .

$\angle 1$ and $\angle 5$
 $\angle 2$ and $\angle 6$
 $\angle 4$ and $\angle 8$
 $\angle 3$ and $\angle 7$



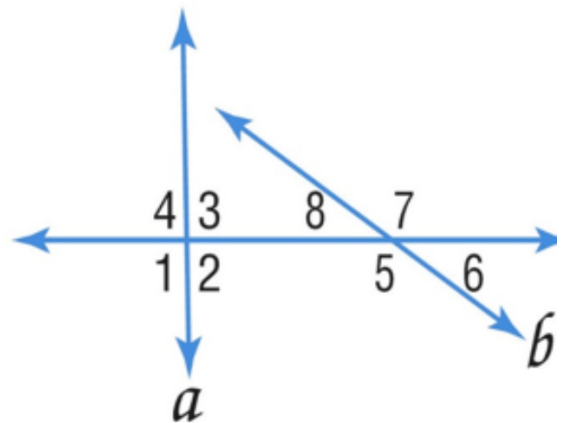
EXAMPLE 1**Classify Angle Pair Relationships**

A. Classify the relationship between $\angle 2$ and $\angle 6$ as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.



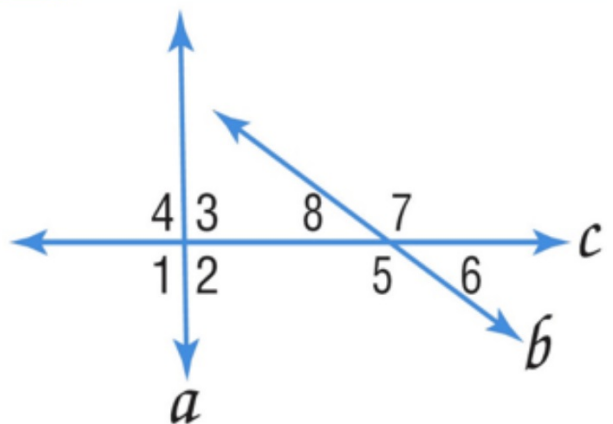
EXAMPLE 1**Classify Angle Pair Relationships**

B. Classify the relationship between $\angle 1$ and $\angle 7$ as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.



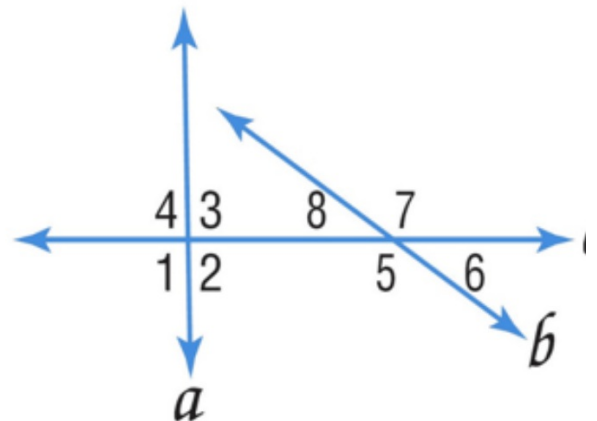
EXAMPLE 1 Classify Angle Pair Relationships

C. Classify the relationship between $\angle 3$ and $\angle 8$ as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior angles*.



EXAMPLE 1**Classify Angle Pair Relationships**

D. Classify the relationship between $\angle 3$ and $\angle 5$ as alternate interior, alternate exterior, corresponding, or consecutive interior angles.

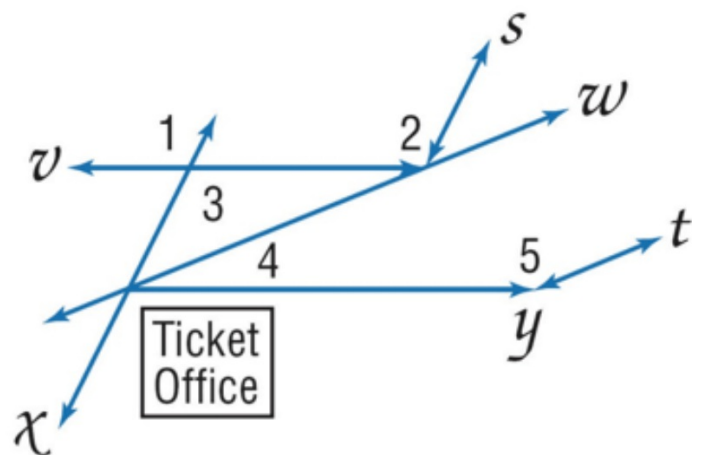


EXAMPLE 2 Identify Transversals and Classify Angle Pairs

A. BUS STATION The driveways at a bus station are shown. Identify the transversal connecting $\angle 1$ and $\angle 2$. Then classify the relationship between the pair of angles.

line v

Corresponding angles

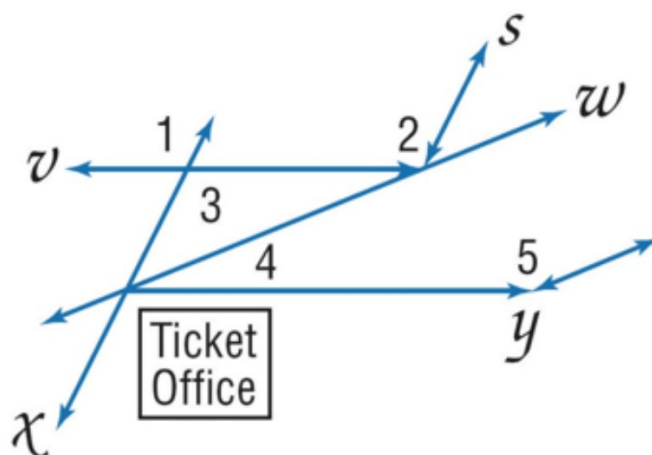


3-1 Parallel Lines and Transversals**EXAMPLE 2** Identify Transversals and Classify Angle Pairs

B. BUS STATION The driveways at a bus station are shown. Identify the transversal connecting $\angle 2$ and $\angle 3$. Then classify the relationship between the pair of angles.

line v

alternate interior

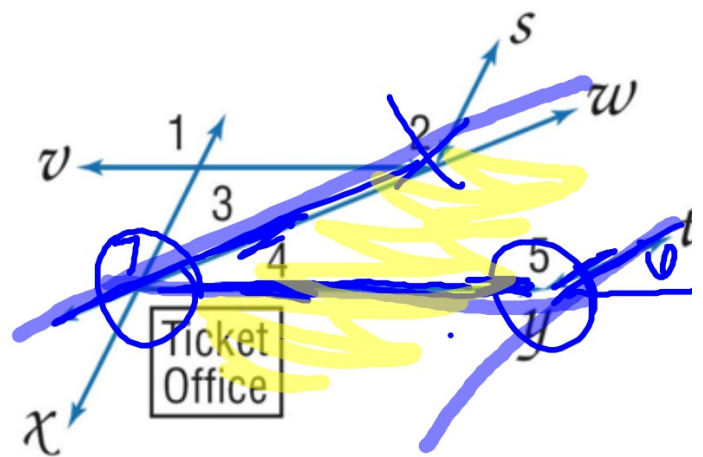


EXAMPLE 2

Identify Transversals and Classify Angle Pair

C. BUS STATION The driveways at a bus station are shown. Identify the transversal connecting $\angle 4$ and $\angle 5$. Then classify the relationship between the pair of angles.

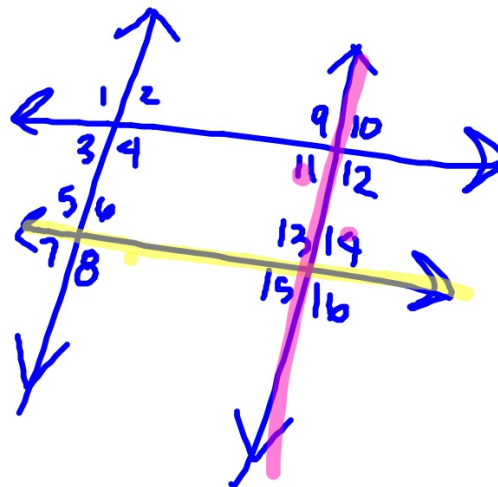
line y
co. int



Complete

Skills Practice 3-1 # 1- 19 odd

Practice 3-1 # 1- 16 all.



Assignment

Practice 3-1
1- 16 all.