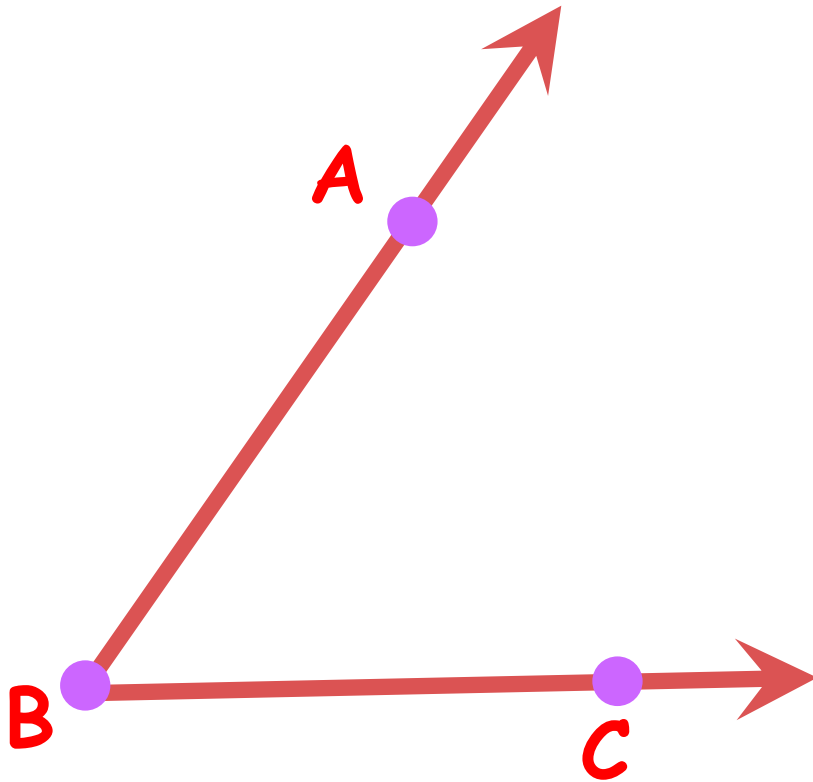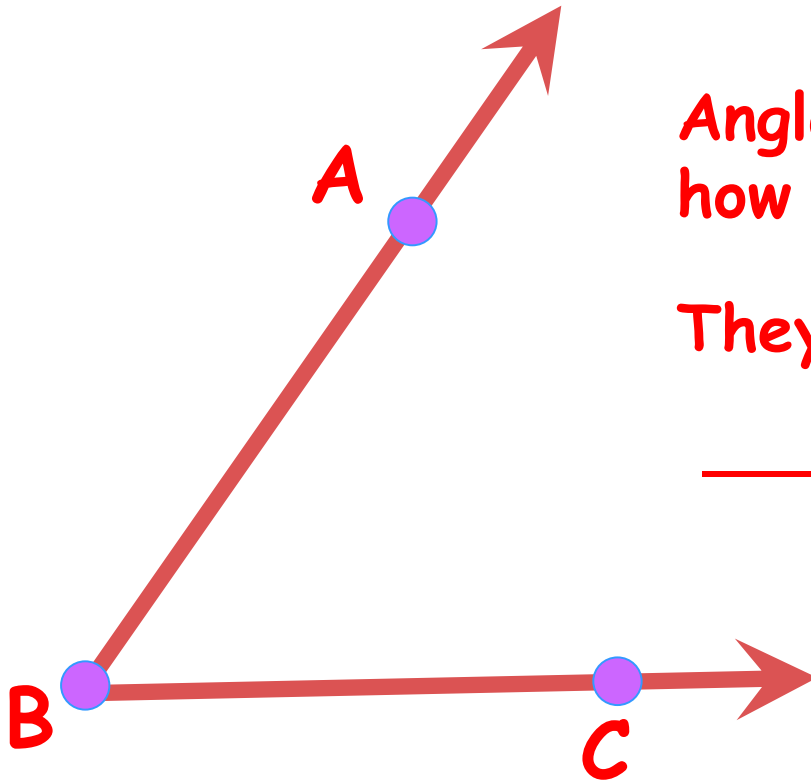# 7.1

Adjacent and Vertical Angles

Naming an Angle

Measurement of Angles

A

B

C

Angles are measured on how open they are.

They're measured by

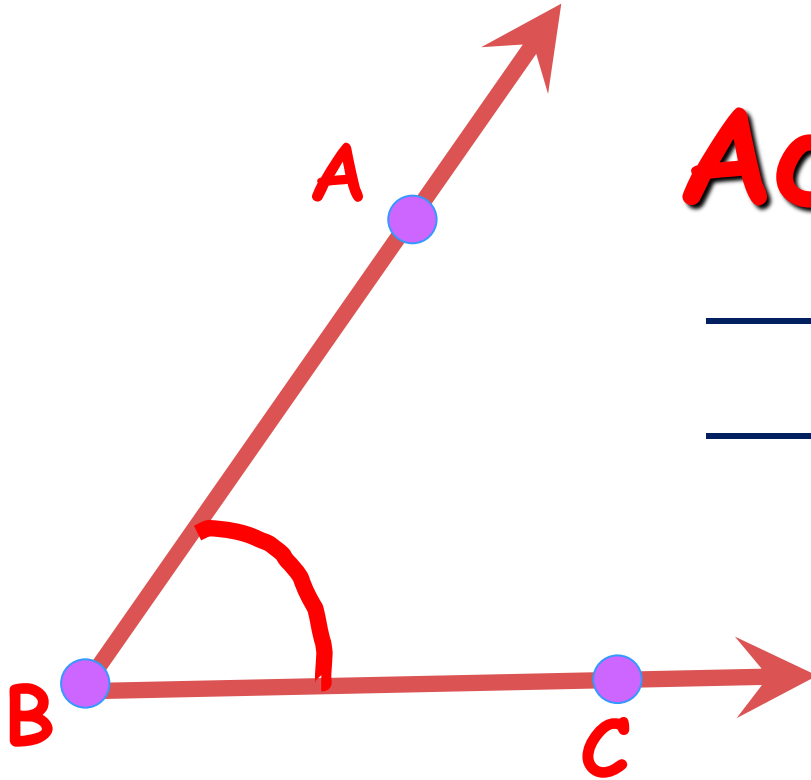_____.

NEW WORD!

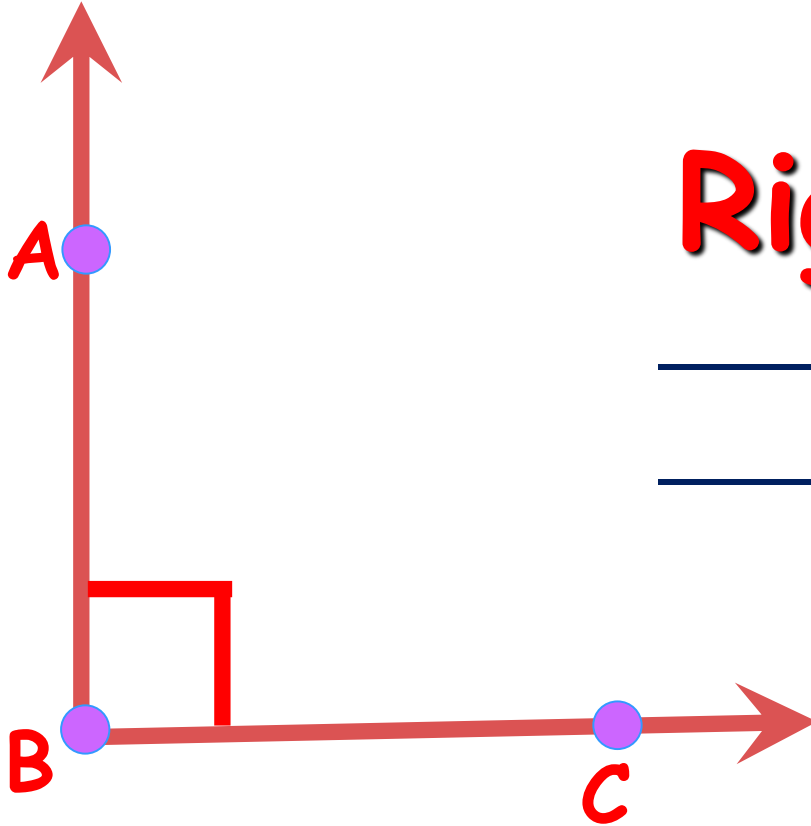# CONGRUENT

_____

_____

Kinds of Angles

Acute Angle

_____

_____

Kinds of Angles
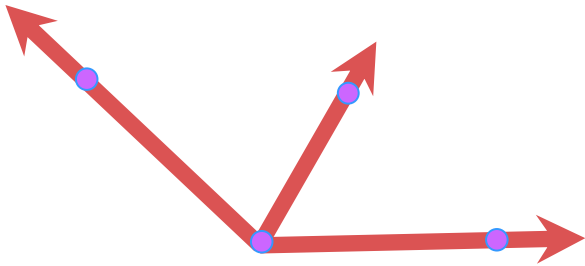
A

B

C

Right Angle

_____

_____

Kinds of Angles

Obtuse Angle

A

B

C
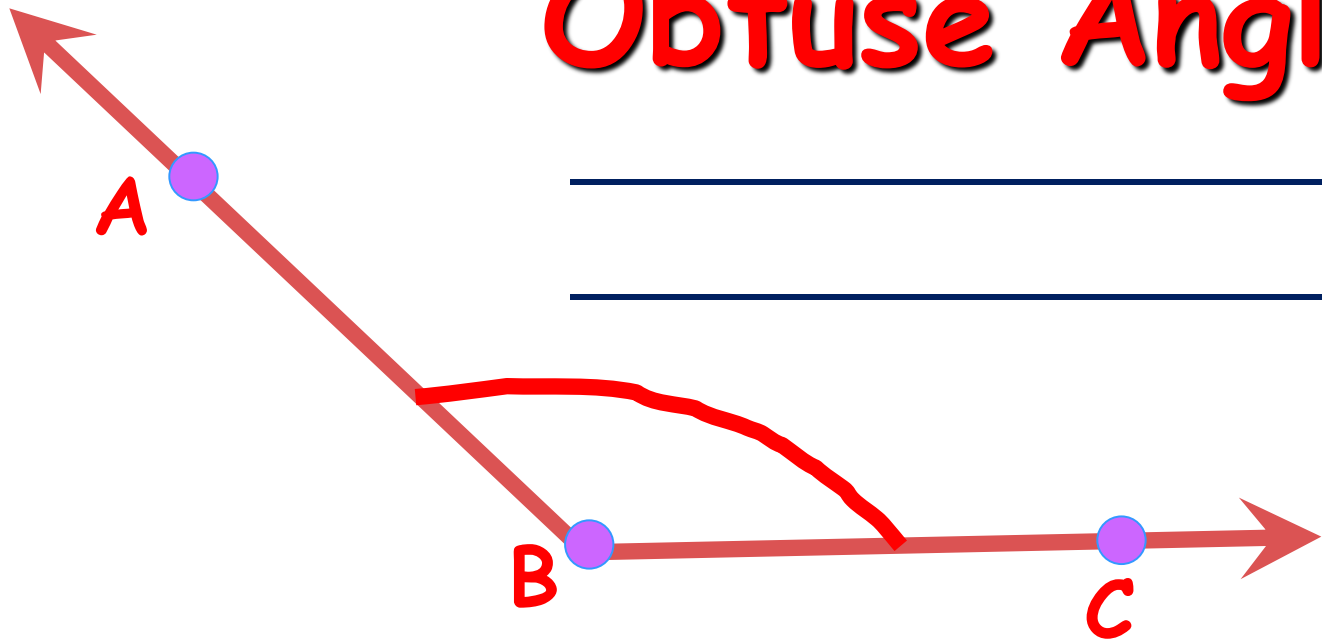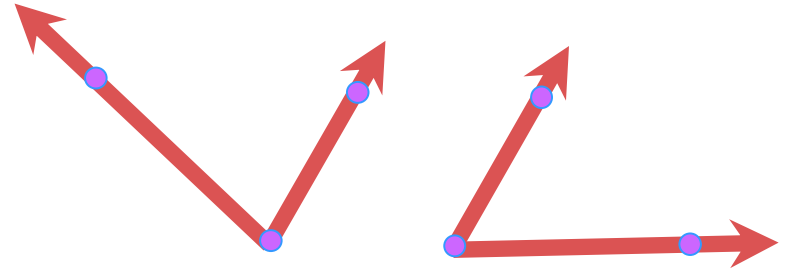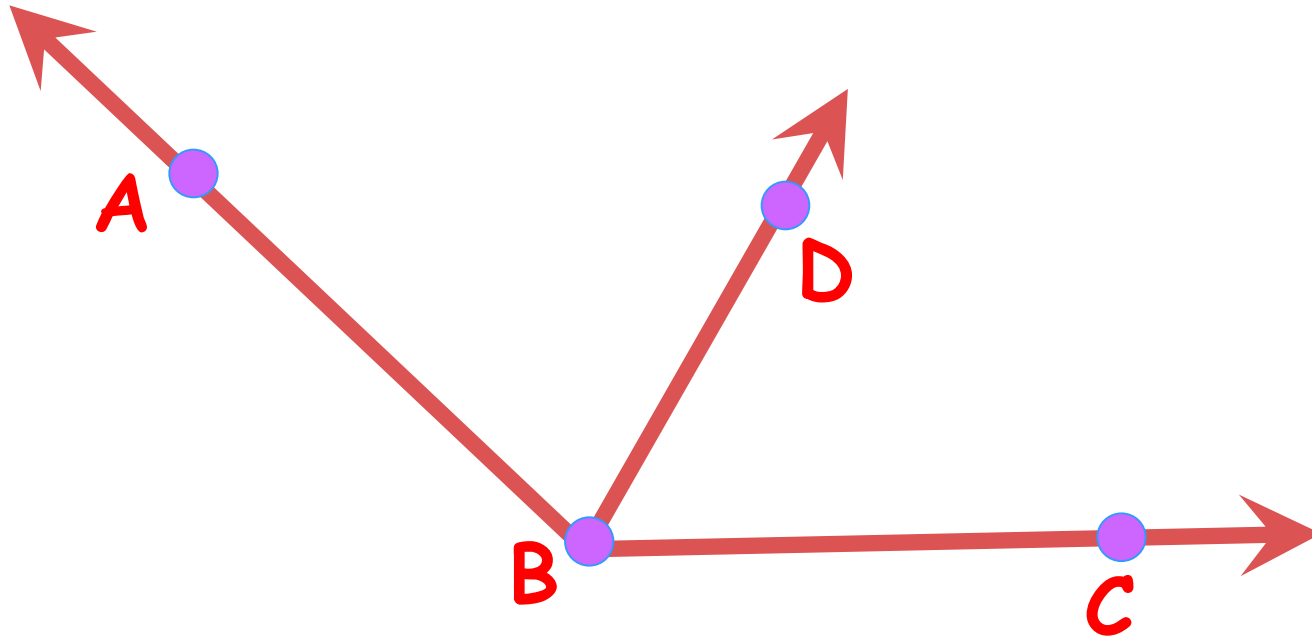
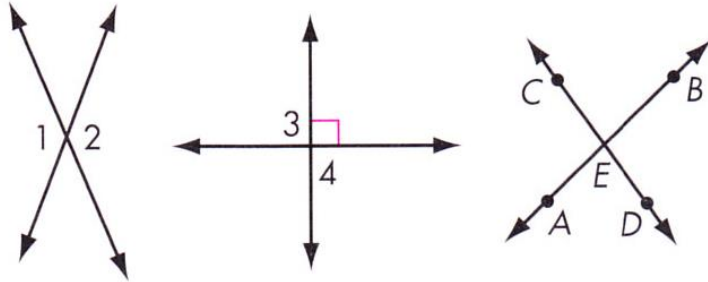# WHAT ARE ADJACENT ANGLES?

Adjacent Angles

Not Adjacent Angles

ADJACENT ANGLES

Adjacent angles are angles ____ _____ other and _____ a _____.

Define vertical angles
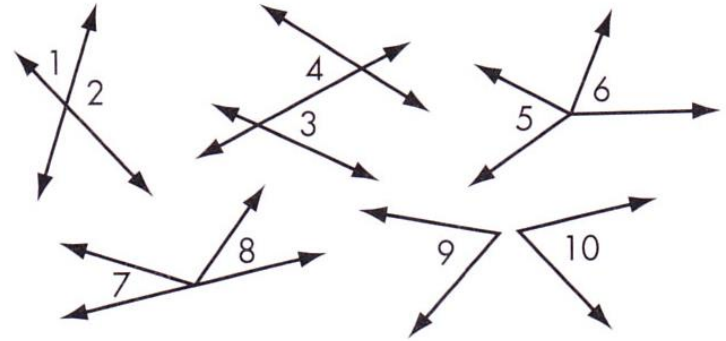
Pairs of vertical angles

Not pairs of vertical angles
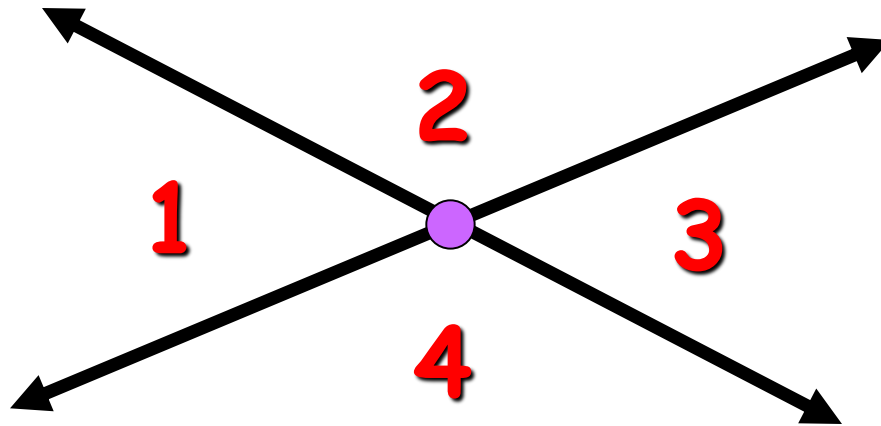

∠1 and ∠2 are a pair of vertical angles. ∠3 and ∠4 are also vertical angles. ∠AED and ∠BEC are also vertical angles.

∠1 and ∠2, ∠3 and ∠4, ∠5 and ∠6, ∠7 and ∠8, and ∠9 and ∠10 are not pairs of vertical angles.
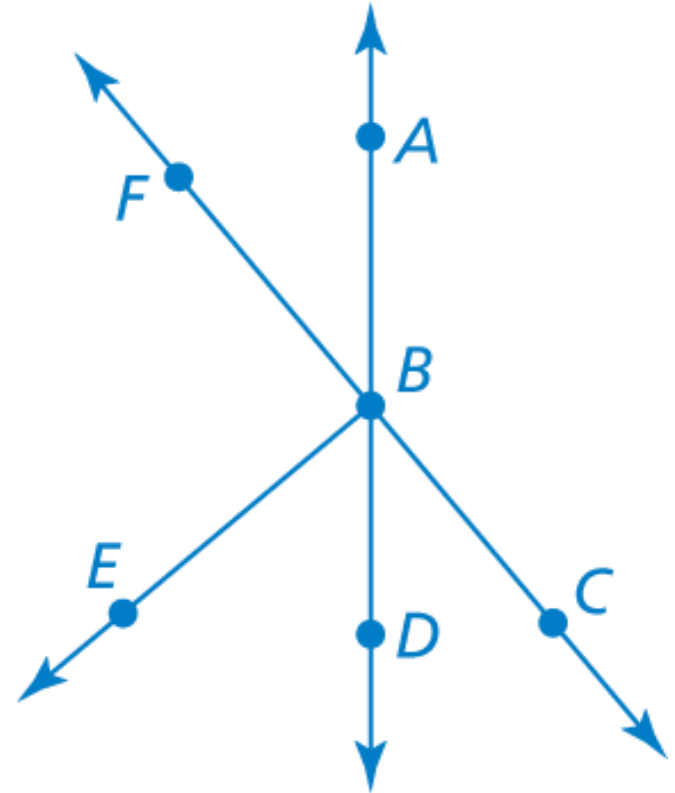
VERTICAL ANGLES

Vertical angles are _____ angles when two _____. They are _____ to each other.

Practice

a) **Name a pair of adjacent angles.**

b) **Name a pair of vertical angles.**

Do you understand?

Name *two pairs* of adjacent angles and *two pairs* of vertical angles in the figure.
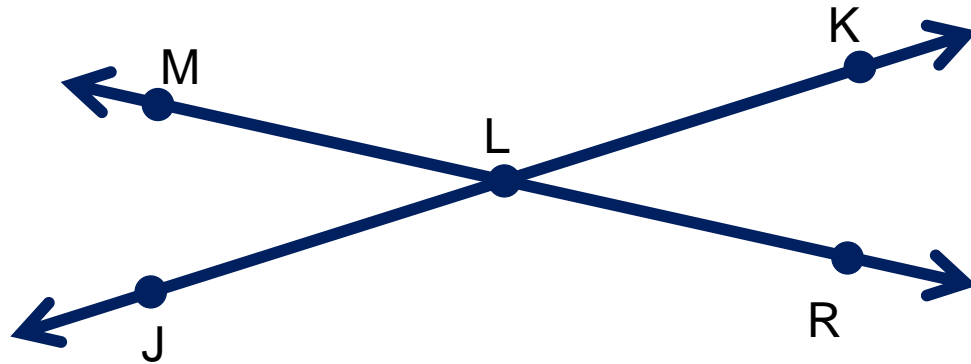
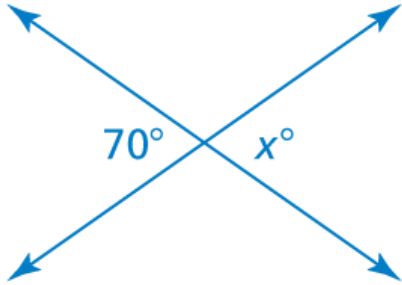| **Adjacent Angles**	**Vertical Angles**
a) _____ & _____	a) _____ & _____
b) _____ & _____	b) _____ & _____

<u>Practice</u>

Tell whether the angles are adjacent or vertical. Then find the value of x.

a.

70° $x°$

b.

31°

$(x + 4)°$