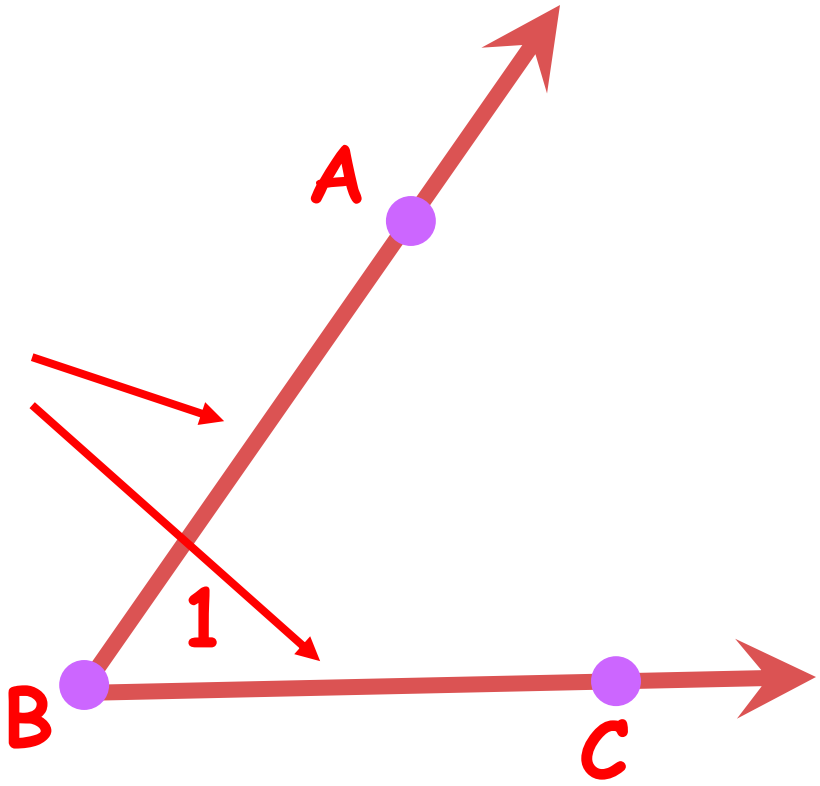
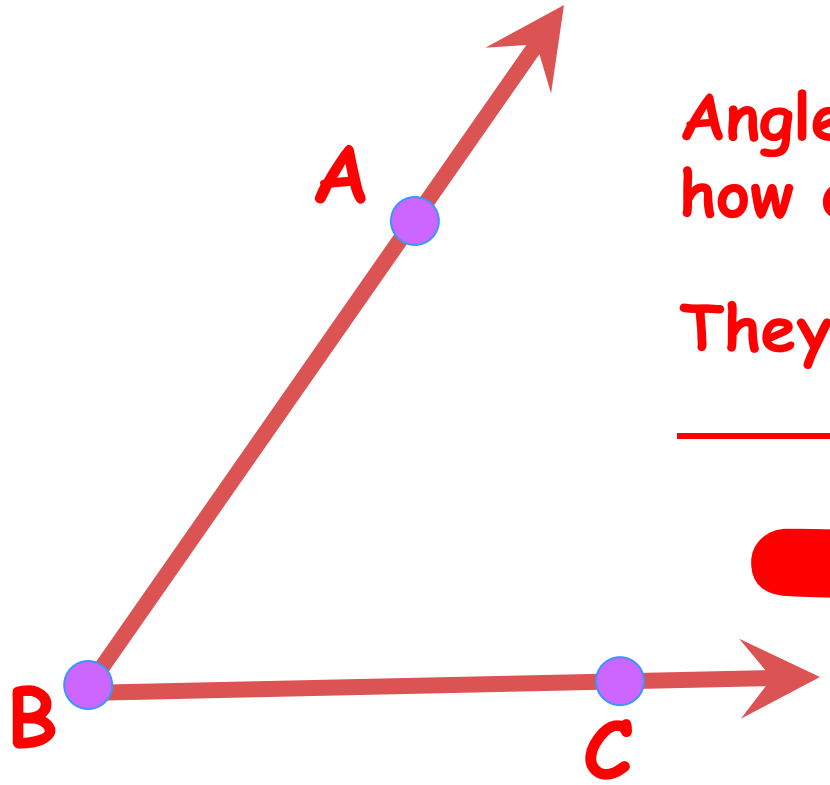
12.1

ADJACENT AND VERTICAL ANGLES

Naming an Angle



Measurement of Angles

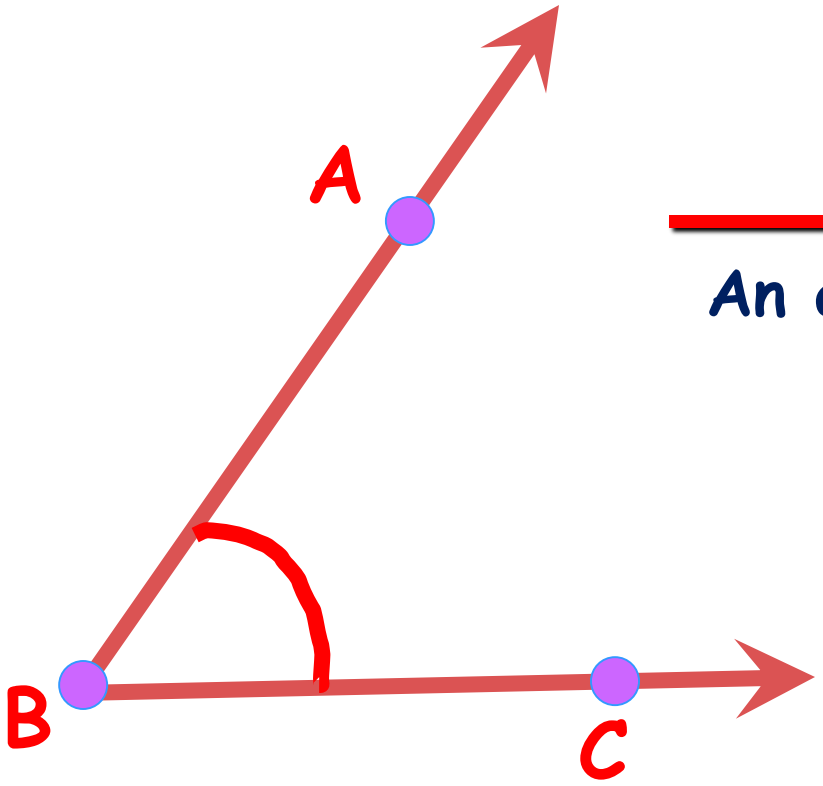


Angles are measured on how open they are.

They're measured by _____.

70°

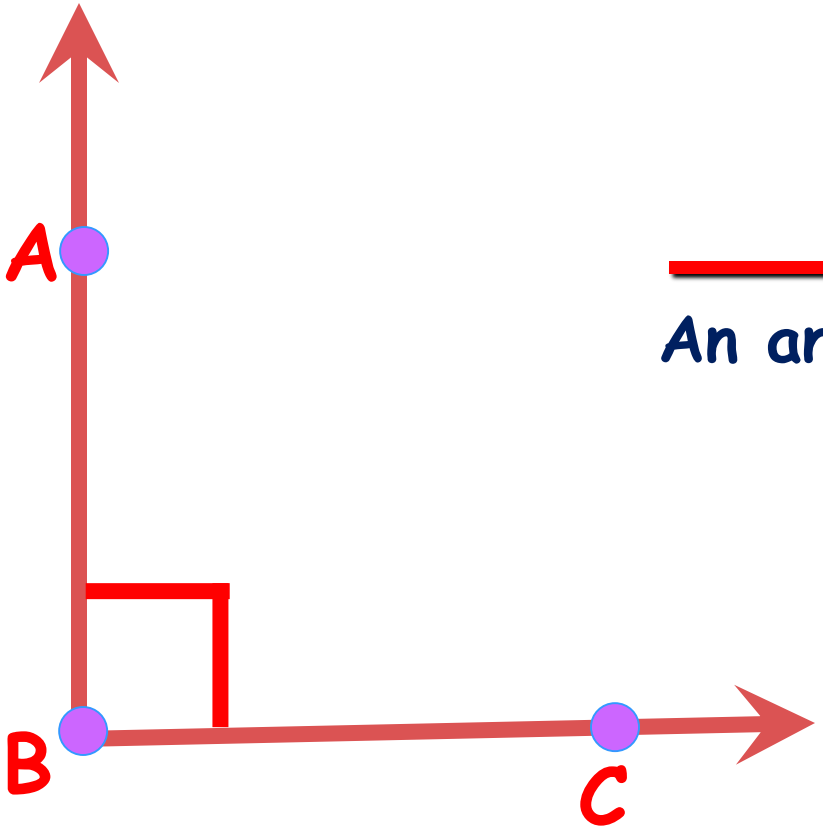
Kinds of Angles



_____ **Angle**

An angle _____

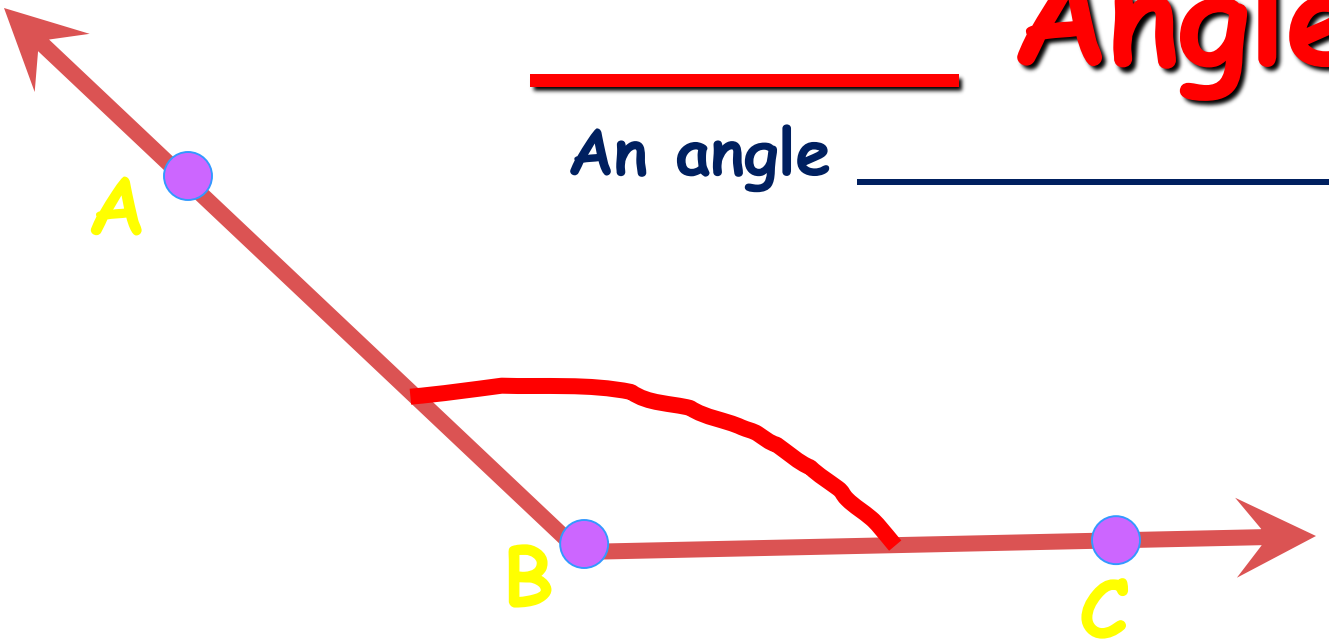
Kinds of Angles



_____ **Angle**

An angle that _____

Kinds of Angles

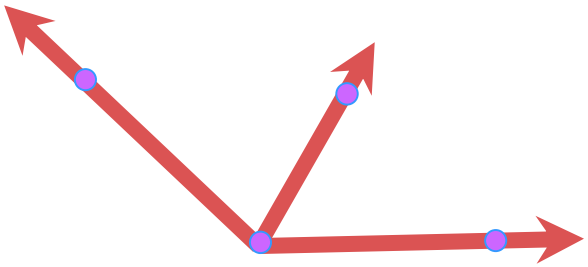


Angle

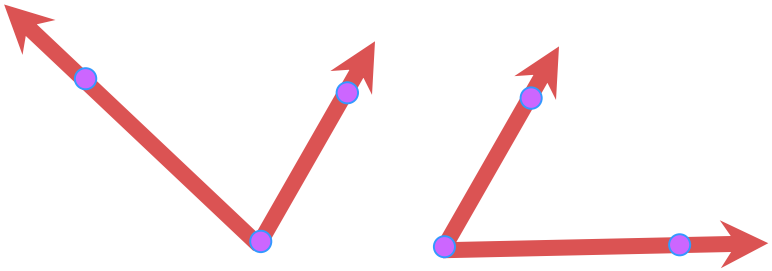
An angle _____

WHAT ARE ADJACENT ANGLES?

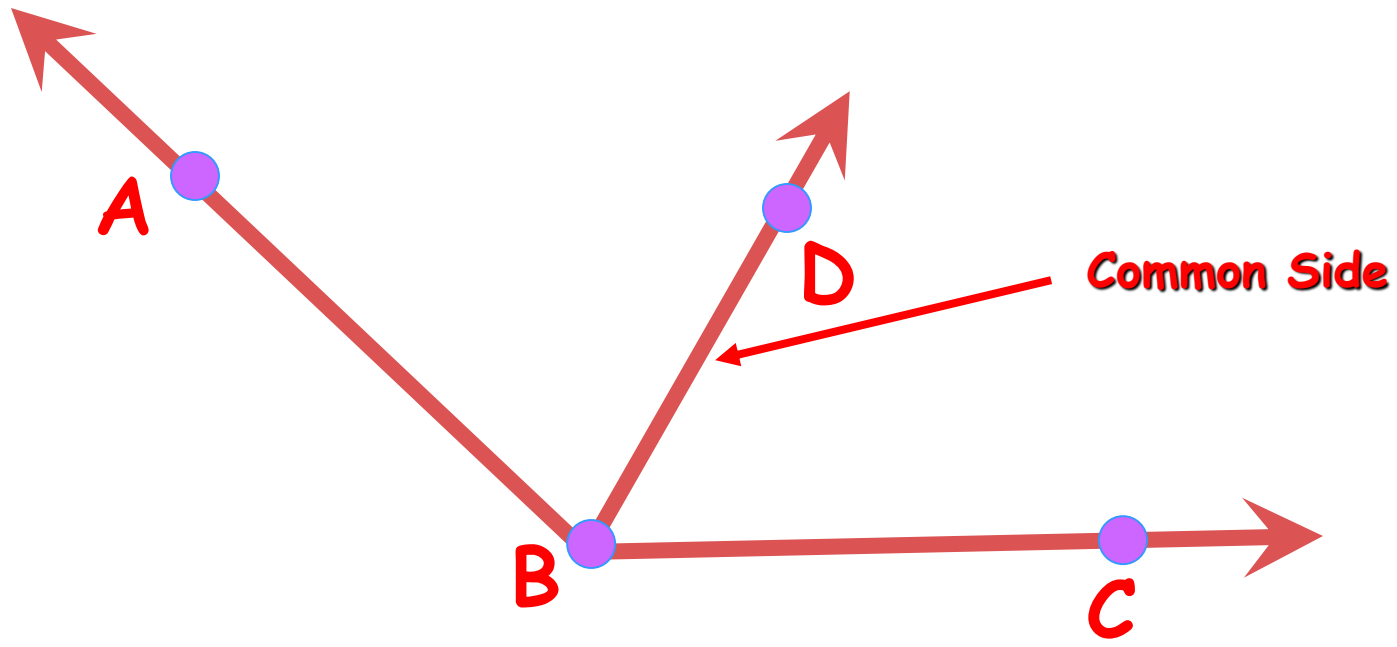
Adjacent Angles



Not Adjacent Angles



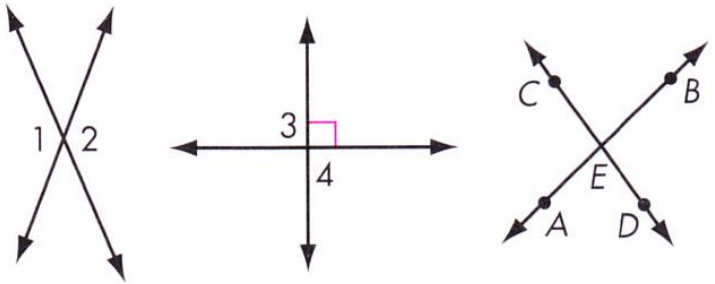
ADJACENT ANGLES



Adjacent angles are angles _____ _____ _____ and _____ _____ _____ _____.

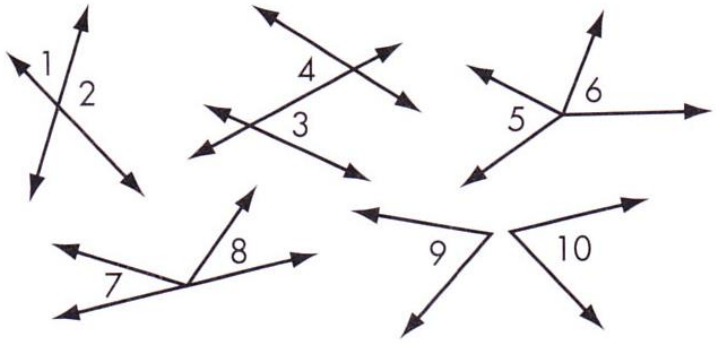
3) Define vertical angles

Pairs of vertical angles



$\angle 1$ and $\angle 2$ are a pair of vertical angles.
$\angle 3$ and $\angle 4$ are also vertical angles.
$\angle AED$ and $\angle BEC$ are also vertical angles.

Not pairs of vertical angles



$\angle 1$ and $\angle 2$, $\angle 3$ and $\angle 4$, $\angle 5$ and $\angle 6$, $\angle 7$ and $\angle 8$, and $\angle 9$ and $\angle 10$ are not pairs of vertical angles.

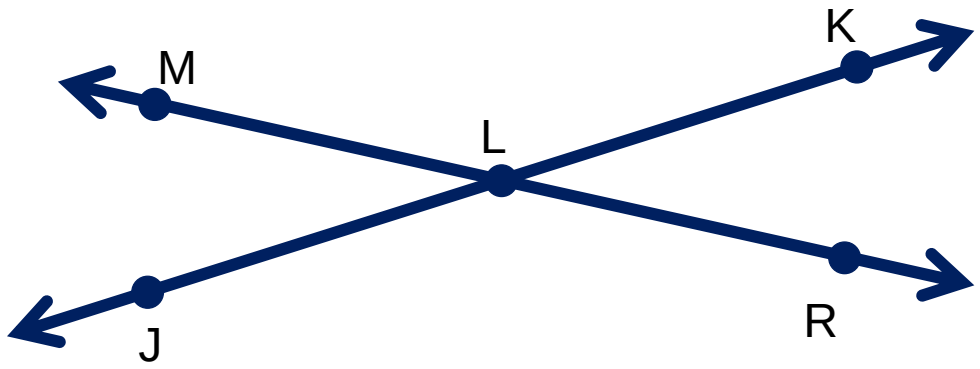
Two angles are vertical angles when they are _____ each other when _____.

Vertical angles are _____, meaning they have the same measure.

Do you understand?

Name ***two pairs*** of adjacent angles and ***two pairs*** of vertical angles in the figure.

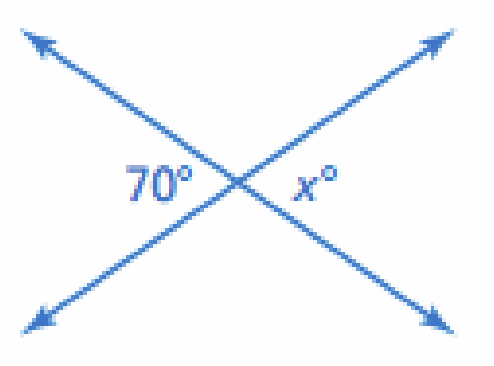
Adjacent Angles	**Vertical Angles**
a) _____ & _____	a) _____ & _____
b) _____ & _____	b) _____ & _____



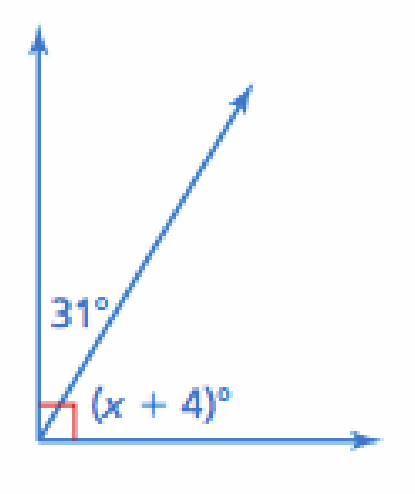
Using Adjacent and Vertical Angles

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

a)



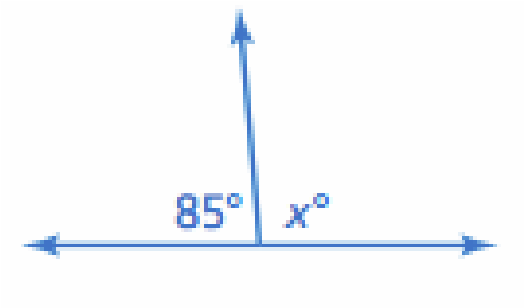
b)



Using Adjacent and Vertical Angles

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

c)



b)