

Notes 5-1

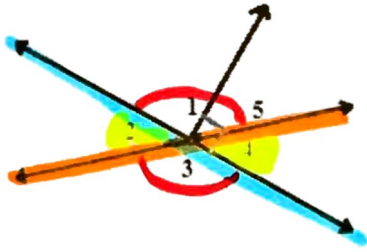
Int 1

Angles and Triangles

Unit 5

Vertical Angles:-

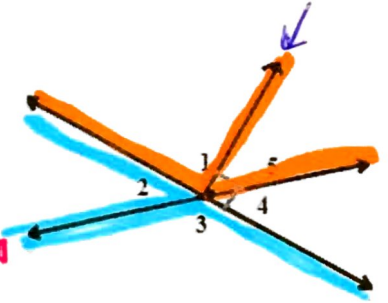
2 angles across an X that are congruent =



Adjacent Angles:

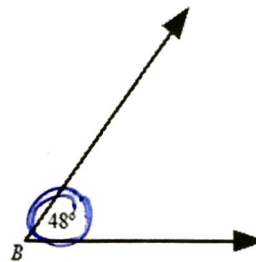
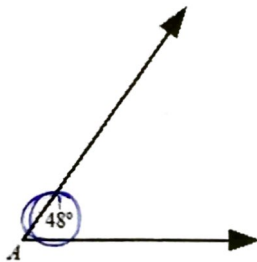


2 angles that share a side



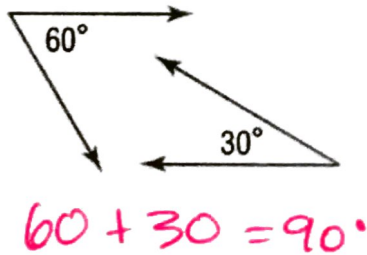
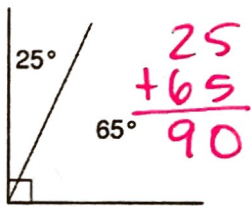
Congruent Angles:

Same =



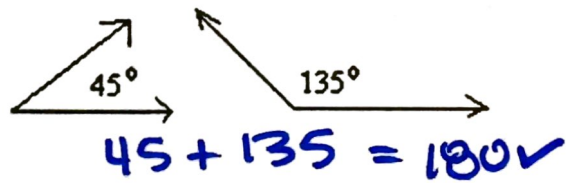
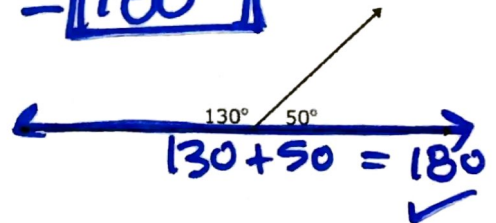
Complementary Angles:

$$+ = 90^\circ$$

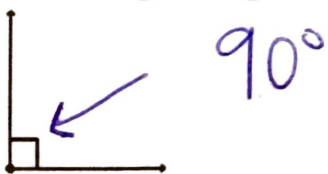


Supplementary Angles:

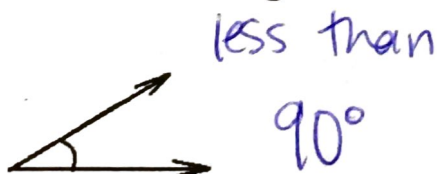
$$+ = 180^\circ$$



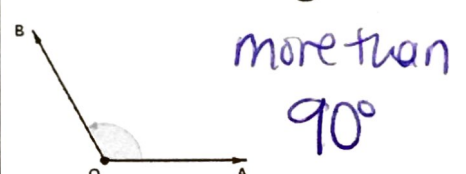
Right Angles:



Acute Angles:



Obtuse Angles:



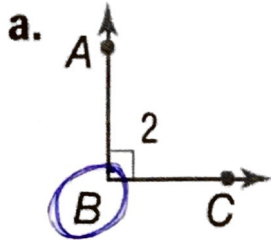
Notes 5-1

Int 1

Angles and Triangles

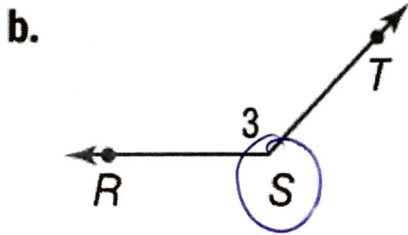
Unit 5

Ex. 1 Name each angle in four ways. Then classify each angle as acute, right obtuse, or straight.



This is a(n) right angle
 Angle names include: $\angle 2$
 $\angle ABC$
 $\angle CBA$
 $\angle B$

Arrow to
Arrow



This is a(n) obtuse angle
 Angle names include: $\angle 3$
 $\angle RST$
 $\angle TSR$
 $\angle S$

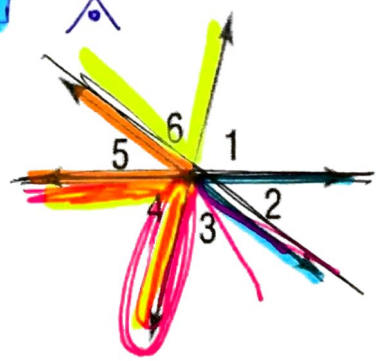
Ex. 2) Refer to the diagram. Identify each angle pair as adjacent, vertical, or neither.



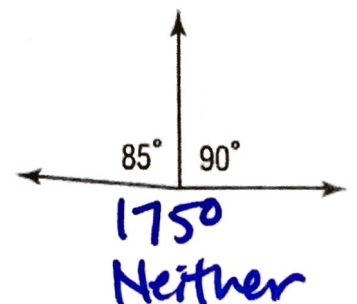
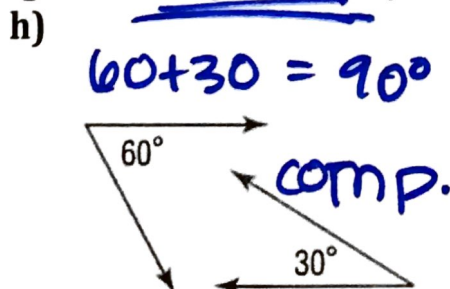
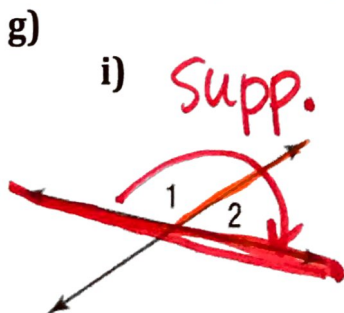
d. $\angle 2$ and $\angle 5$
 Vertical

e. $\angle 4$ and $\angle 6$
 Neither

f. $\angle 3$ and $\angle 4$
 adjacent



Ex. 3 Identify each pair of angles as complementary, supplementary or neither.

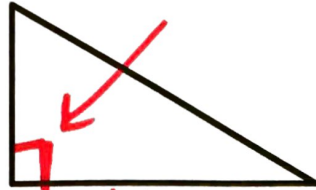


Vocabulary:

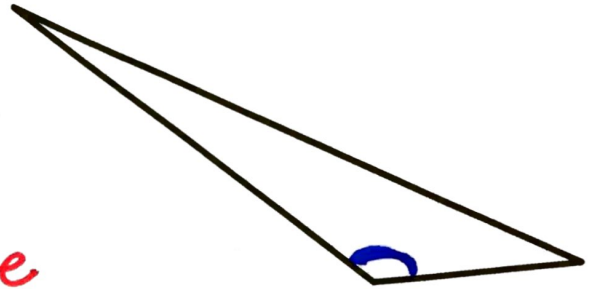
ANGLE



Acute triangle

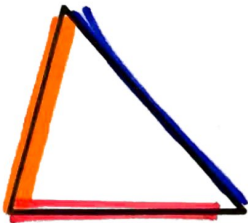


Right triangle

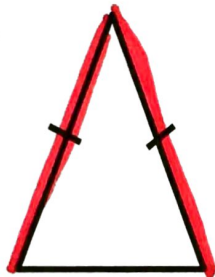


OBTUSE

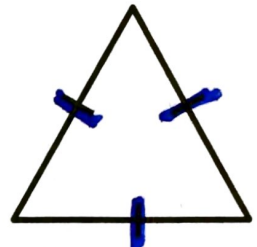
SIDES



Scalene

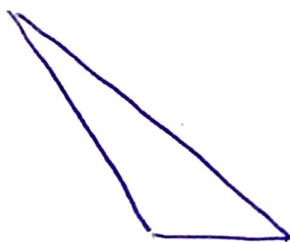


isosceles



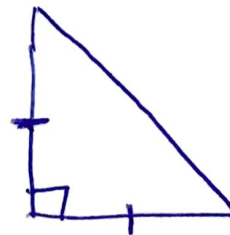
Equilateral

Ex. 1: Draw a triangle with one obtuse angle and no congruent sides. Classify the triangle.



OBTUSE
Scalene

Ex. 2: Draw a triangle with one right angle and two congruent sides. Classify the triangle.



isosceles
right.

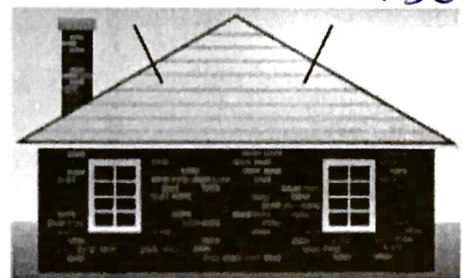
Classify the triangle show by its angles and by its sides.

Ex. 3:



right
Scalene

Ex. 4:



obtuse
isosceles