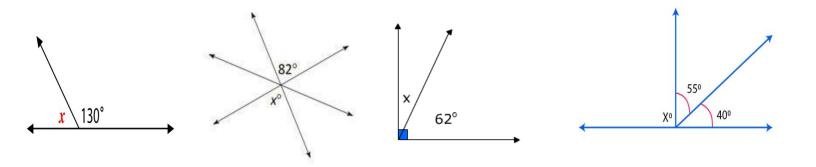
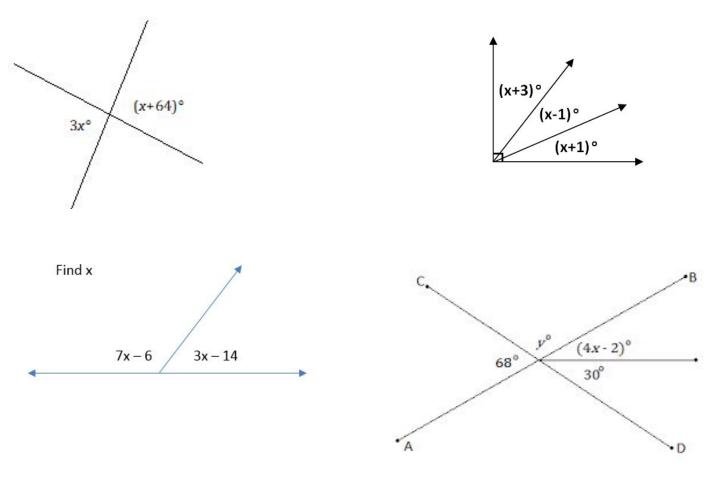
Right Angle	Straight Angle	Obtuse Angle	Acute Angle
Complementary	Supplementary	Vertical	Adjacent

Finding the Missing Angle



Finding the Missing Angle - Using Algebra



1. The measures of two <u>supplementary</u> angles are in the ratio of 2:3. Find the measurements of the two angles.

2. In a pair of **complementary** angles, the measurement of the larger angle is three times that of the smaller angle. Find the measurements of the two angles.

3. The measure of a <u>supplement</u> of an angle is 6° more than twice the measure of the angle. Find the measurement of the two angles.

- 4. The measurement of the **complement** of an angle exceeds the measure of the angle by 75%. Find the measurement of the angle and its complement.
- 5. Three adjacent angles are <u>at a point</u>. The second angle is 30° more than the first, and the third angle is 40° more than the second angle. Find the measurements of all three angles.

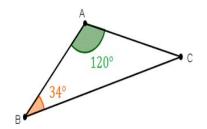
6. Three adjacent angles are on a line. The measurements of the three angles are four consecutive whole numbers. Determine the measurements of all three angles.

Triangle Sum Theorem

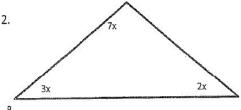
All the angles in a triangle add up to 180°.

Find the missing angles.

1.



2.



Triangle Inequality Theorem

The sum of any two sides of a triangle must be greater than the 3rd side.

1. 3, 9, 7

Triangle Congruence Theorems

Theorem	Proves 2 Triangles are Congruent	Picture	Word Description
SAS	Yes or No		
SSS	Yes or No		
AAS of SAA	Yes or No		

Theorem	Proves 2 Triangles are Congruent	Picture	Word Description
ASA	Yes or No		
HL	Yes or No		
SSA or	Yes or No		