

Honors Geometry

Notes Section 1.5

Describe Angle Pair Relationships

VOCABULARY

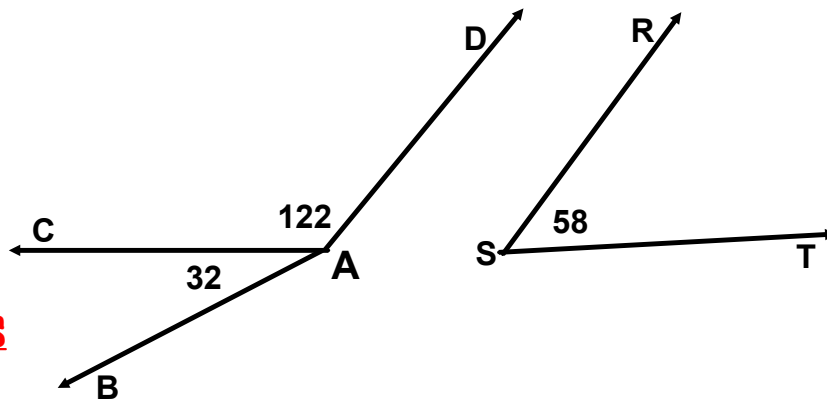
Complementary Angles: 2 or more angles whose sum is 90 degrees.

Supplementary Angles: 2 or more angles whose sum is 180 degrees.

Adjacent Angles: angles that share a common side and vertex

Linear Pair: adjacent angles whose noncommon side forms a line.

Vertical Angles: angles formed by intersecting lines, have a common vertex and are directly across from each other.



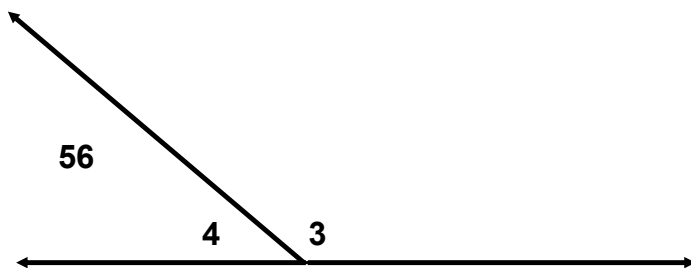
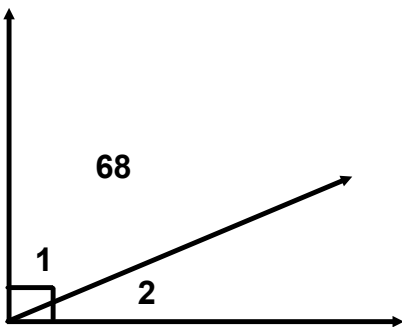
EXAMPLES

1) Name a pair.

a) Complementary Angles

b) Supplementary Angles

c) Adjacent Angles



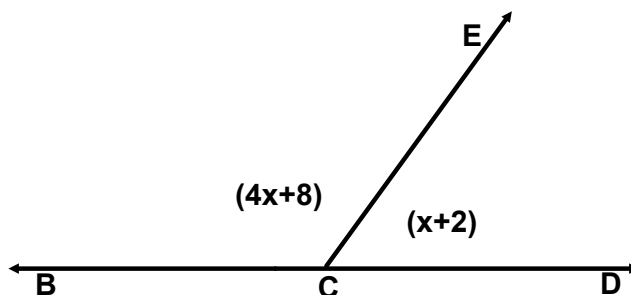
2) Find the measure of the angle.

a) Angle 2

b) Angle 3

EXAMPLES

3) Find the indicated angle.



a) Angle BCE = -----

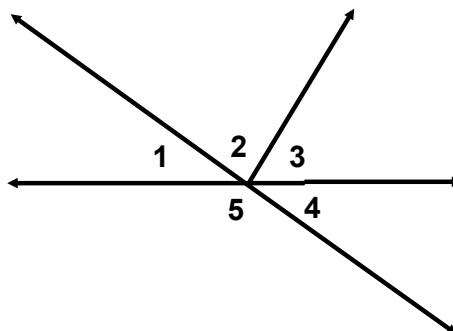
b) Angle ECD = -----

c) Angle LMN and Angle PQR are complementary angles. Find the measures of the angles if the measure of LMN= $(4x-2)$ degrees and the measure of PQR= $(9x+1)$ degrees.

4) Identify all pairs.

a) Vertical Angles

b) Linear Pair



EXAMPLES

- 5) Two angles form a linear pair. The measure of one angle is 5 times the measure of the other. Find the measure of each angle.

