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.

D   R

C   122   58

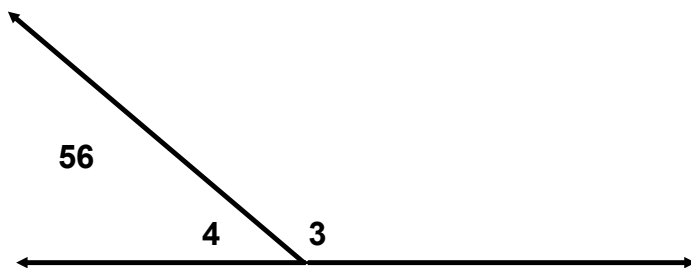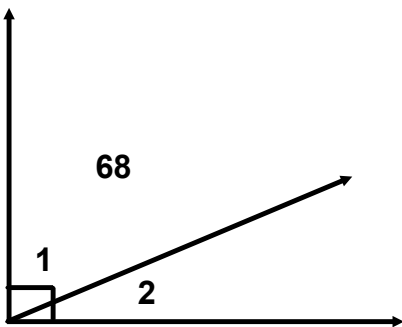32   A   S   T

B
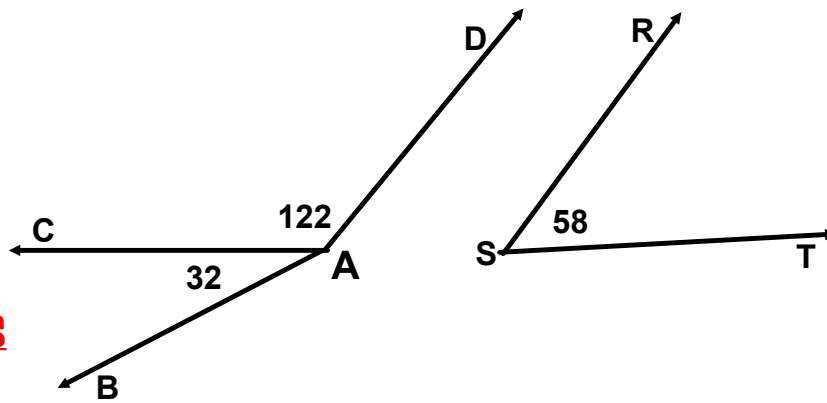
EXAMPLES

1) Name a pair.

a) Complementary Angles _____

b) Supplementary Angles _____

c) Adjacent Angles _____

68

1   56

2   4   3

2) Find the measure of the angle.

a) Angle 2 _____

b) Angle 3 _____

EXAMPLES

3) Find the indicated angle.

E

(4x+8)

(x+2)

B   C   D
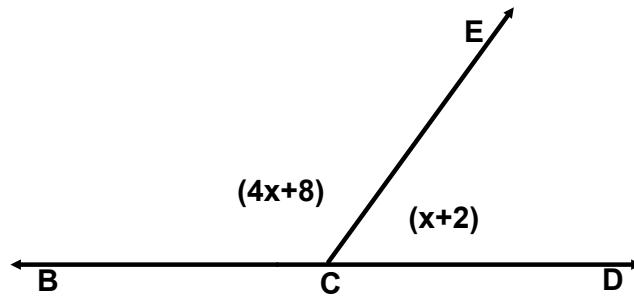
a) Angle BCE = _____

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.
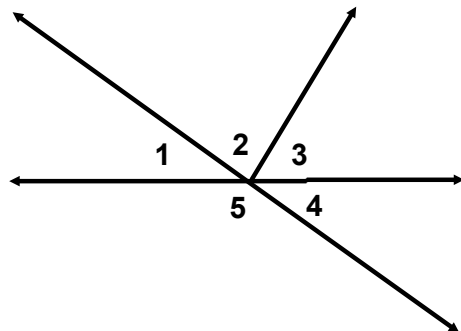
4) Identify all pairs.

a) Vertical Angles _____

b) Linear Pair _____

1   2 3
5   4

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.**