Geometry CC 1.1 HW - Angles
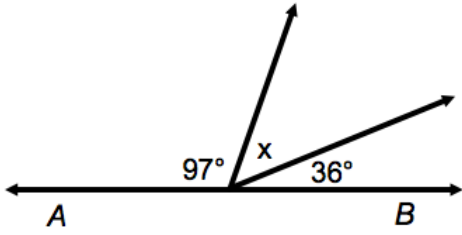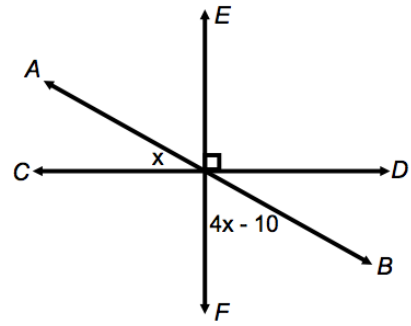
Part A: Find the value of x and/or y in each diagram below. Show all steps to your solution.

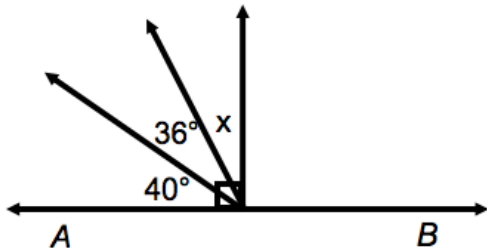**1.**

2.

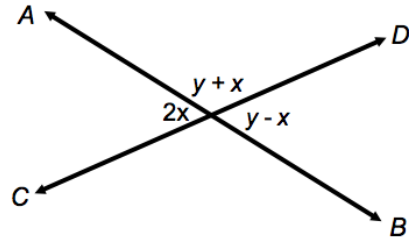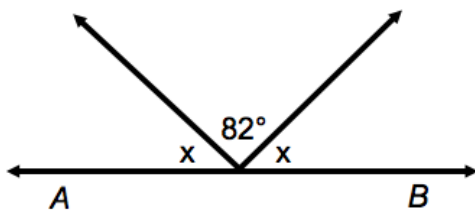**3.**

4.

5.

6.

7.

8.

Part B: In the figures below, $\overline{AB}$ and $\overline{CD}$ are straight lines. Find the value of x and/or y in each diagram below. Show all steps to your solution.

1.

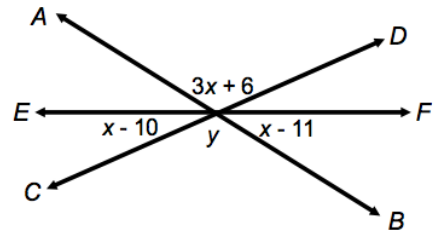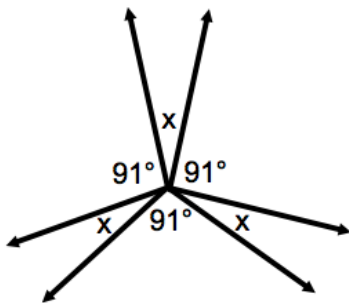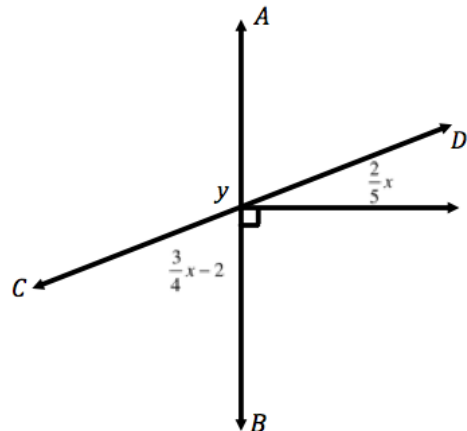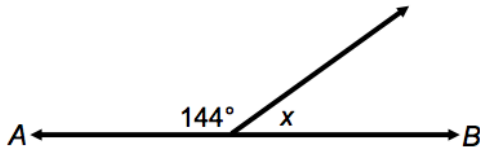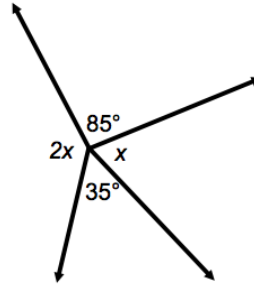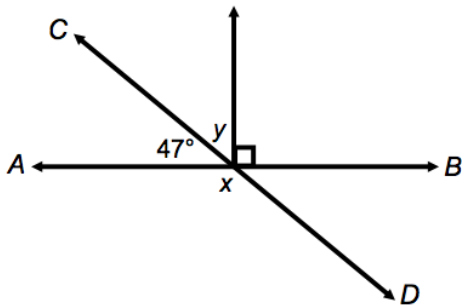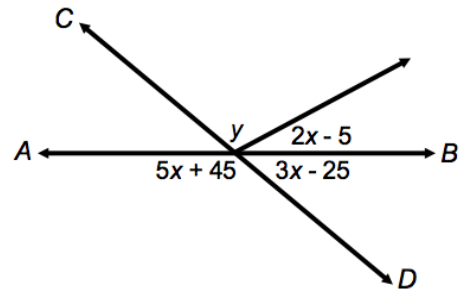144° x

A ————————→ B

2.

85°
2x   x
35°

3

C

47° y

A ←————————→ B

x

D

4.

C

y   2x - 5

A ←————————→ B

5x + 45   3x - 25

D

5. If $\angle A$ and $\angle B$ are complementary and $m\angle A = 26 - x$; $m\angle B = 4x + 13$, find the value of x and the measure of the angles.

6. If $\angle A$ and $\angle B$ are supplementary and the measure of $\angle A$ is 12 less than twice the measure of $\angle B$, find the measures of each angle.