7.2 Complementary and Supplementary Angles p.276
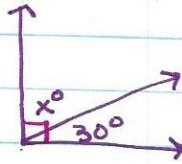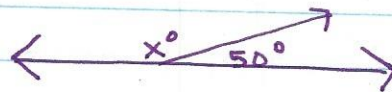
Complementary angles : angles whose sum is $90°$
(corner)

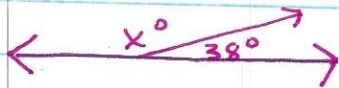$m\angle x = \underline{60°}$
$\hookrightarrow$ measure

Supplementary angles: angles whose sum is $180°$
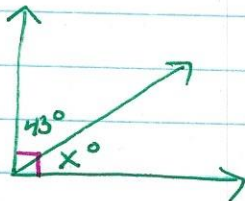(straight line)

$m\angle x = \underline{130°}$

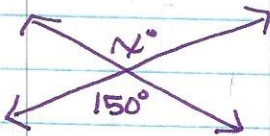## Find the value of x. And what type of $\angle$'s are they?
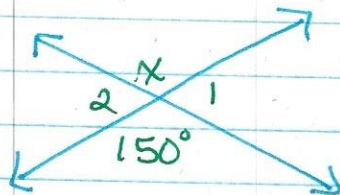
1.)

$m\angle x = \underline{142°}$

2.)

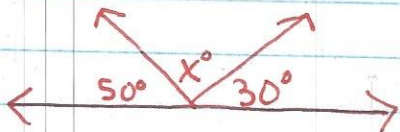$m\angle x = \underline{47°}$

3)

$m\angle x = \underline{150°}$

4)

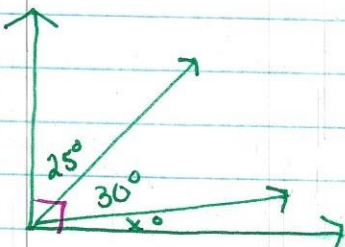$m\angle x = \underline{150°}$
$m\angle 1 = \underline{30°}$
$m\angle 2 = \underline{30°}$

5)
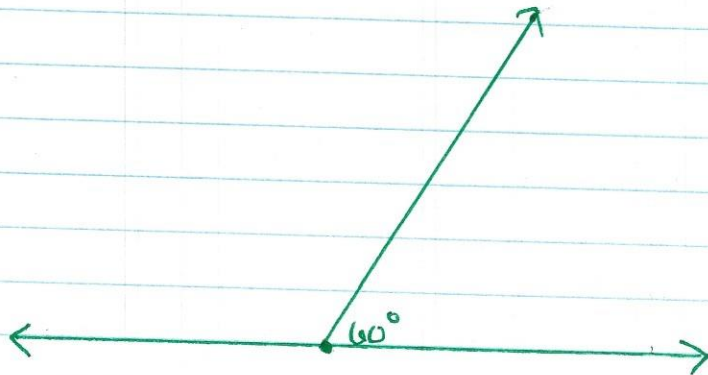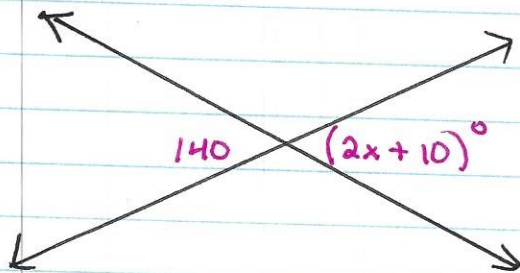
$m\angle x = \underline{100°}$

6)

$m\angle x \quad \underline{35°}$

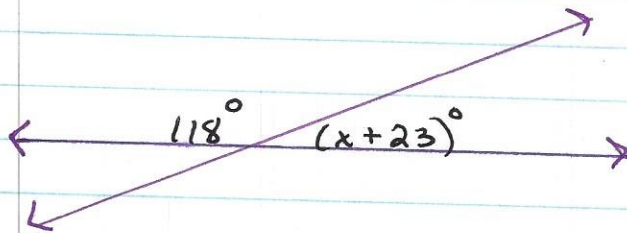**7)** Draw a pair of adjacent supplementary angles so that one angle is 60°. LABEL

60°

8)

140   $(2x + 10)°$

$x =$ __65__

$140 = 2x + 10$

9)

118° $(x + 23)°$

$x =$ __39__

$118 + x + 23 = 180$
$141 + x = 180$

10)

80°
1   2
130° 3

$m\angle 1 =$ __50°__
$m\angle 2 =$ __50°__
$m\angle 3 =$ __50°__