Name: _____
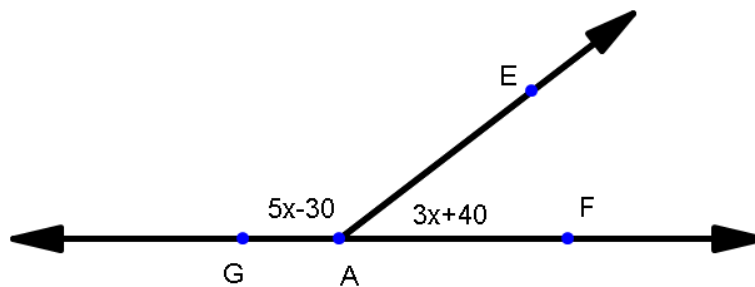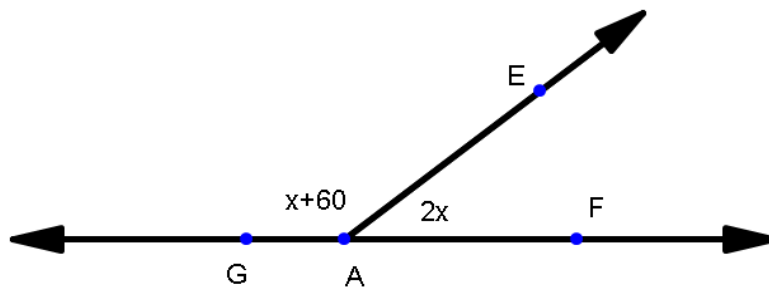
Adjacent Angles and Pairs of Angles

A) Given that ∠GAE and ∠EAF are supplementary, find the value of x and the measure of each angle

1)

E

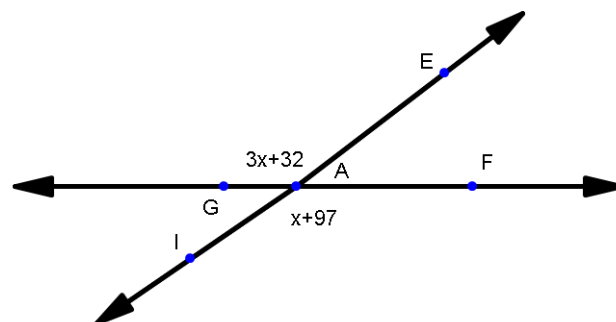5x-30   3x+40   F
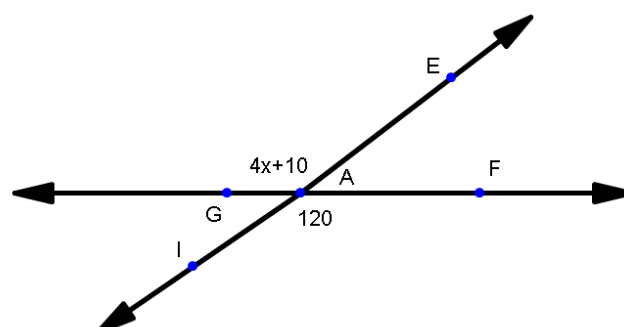
G   A

2)

E

x+60   2x   F

G   A

B) Find the value of x and the measure of each angle

3)

E

3x+32   A   F
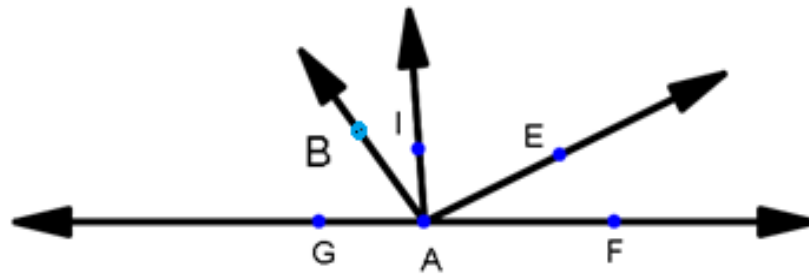
G

x+97

I

4)

E

4x+10   A   F

G   120

I

C) Given the diagram below,

5) If $m\angle FAE = 40°$ and $\angle FAE$ is the complement of $\angle IAE$, find $m\angle IAE$ and $m\angle GAE$

6) If $m\angle FAB = 137°$, find $m\angle GAB$

7) If $m\angle FAB = 163°$ and $m\angle FAI = 100°$ find $m\angle IAB$

8) If $m\angle BAI = 38°$ and $\angle IAE$ is the complement of $\angle IAB$, find $m\angle IAE$