## Name:

## Supplementary and Complementary Angles

A) Answer each question and justify

1) Find the supplement for an angle equal to $115^{\circ}$
2) Find the complement for an angle equal to $59^{\circ}$
3) Find the complement for an angle equal to $89^{\circ}$
4) Find the supplement for an angle equal to $89^{\circ}$
5) Which represents the supplement of an angle measuring $5 x$ ?
6) If two angles are complementary angles and they measure $(x+15)^{\circ}$ and $(3 x-5)^{\circ}$. Find the measure for each angle.
7) If two angles are supplementary and their measures are $(2 y-12)^{\circ}$ and $(5 y+17)^{\circ}$. Find the measure of each angle.
8) If two angles are supplementary and are in the ratio of 5:4, find the measure of the larger angle.
9) If two angles are complementary and are in a $2: 3$ ratio. What are their measures?
10)Two angles supplementary angles are in ratio $3: 5$. How much does each measure?
11)The measure of the supplement of an angle is 60 less then 3 times the measure of the compliment of the angle. Find the measure of the complement.
B) Write a two-column proof for each of the following:
12)Given: Đ1 and $Đ 2$ form a linear pair

Prove: Đ1 and Đ2 are supplementary


