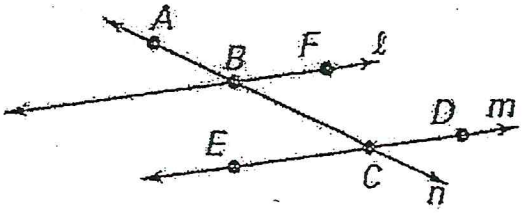
d) What are supplementary angles?

e)Use the figure to the right to name two pairs of opposite rays

f) Use the figure to the right to name 3 collinear points.

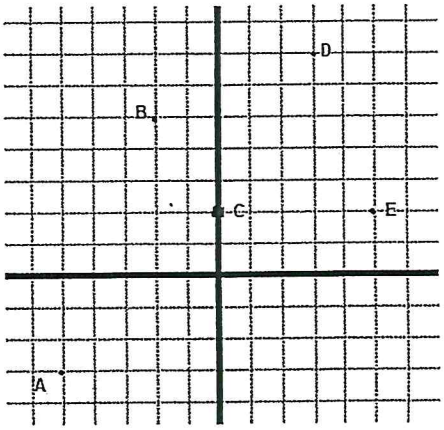
g) Points B and E are always_____



4. Find the distance between the point (7,5) and the point (9, -1)? Then find the midpoint.

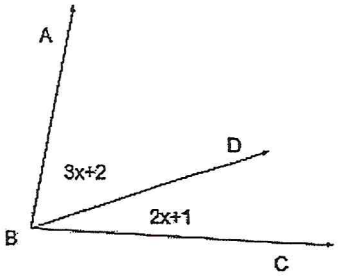
5. Use the figure to right.
a) A car travels from A to B and then to E. What is the total distance?

b) If F is the midpoint of DC, where is the location of F?



6. If BD=74, BC=2x+7, and CD=4x+1, find x. Then find BC and CD.

7



If m<ABC is 83°, determine m∠ABD and m∠DBC.

8. Complete the following proofs using a 2 column proof:

a)

Given: $4(x+3)=52$

Prove: $x=10$

b) If <A and <B are complementary, and <C and <B are complementary, which of the following can represent measures of <A and <C?

a)m<A= 30°,m <C = 60°
b) m<A= 50°,m <C = 50°
c) m<A= 120°,m <C = 60°