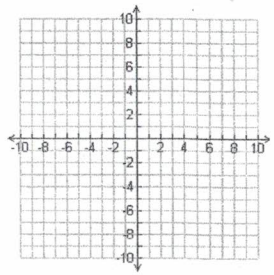
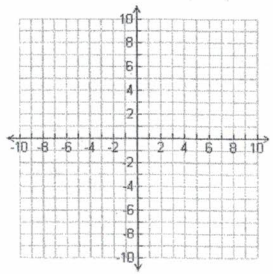
Midpoint and Distance Worksheet

1) Graph the points A (1, 8) and B (9, 6).
Find the midpoint of $\overline{AB}$.



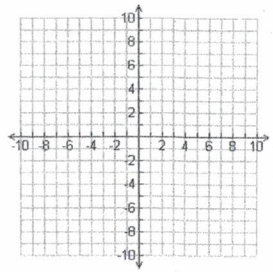
Find the length of $\overline{AB}$.

2) Graph the points C (2, -4) and D (6, 2).
Find the midpoint of $\overline{CD}$.



Find the length of $\overline{CD}$.

3) Graph the points E (-10, -9) and F (4, -3).
Find the midpoint of $\overline{EF}$.



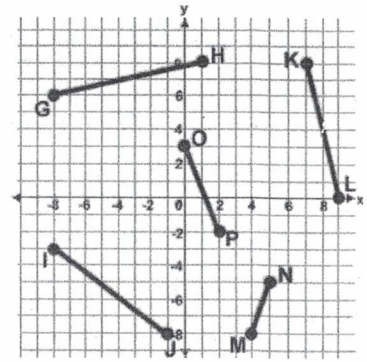
Find the length of $\overline{EF}$.

FdM 1 Unit 3 Homework #3 Sections 3.1-3.2 Name:_____

4) Determine the coordinates of the points needed. Then find the distance of each line segment.

a) GH G(,) H(,)

b) KL K(,) L(,)

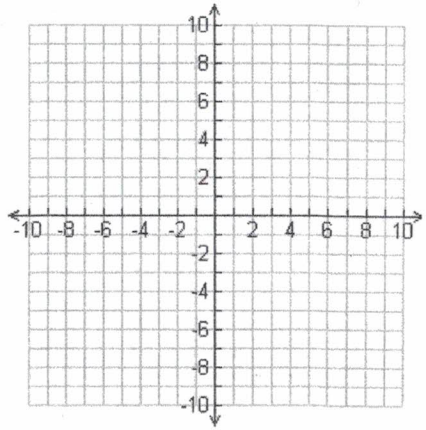


5) Triangle ABC has coordinates A (3, 9), B (5,1) and C (9, 5). **D is the midpoint of AB** and **E is the midpoint of AC**.

a) Graph the points A, B, and C (make sure you label them). Find the coordinates of points D and E. Show all work.

D =

E =



b) Plot points D and point E on the graph and label.

c) Find the length of BC. Show all work.

d) Find the **length of DE**. Show all work.