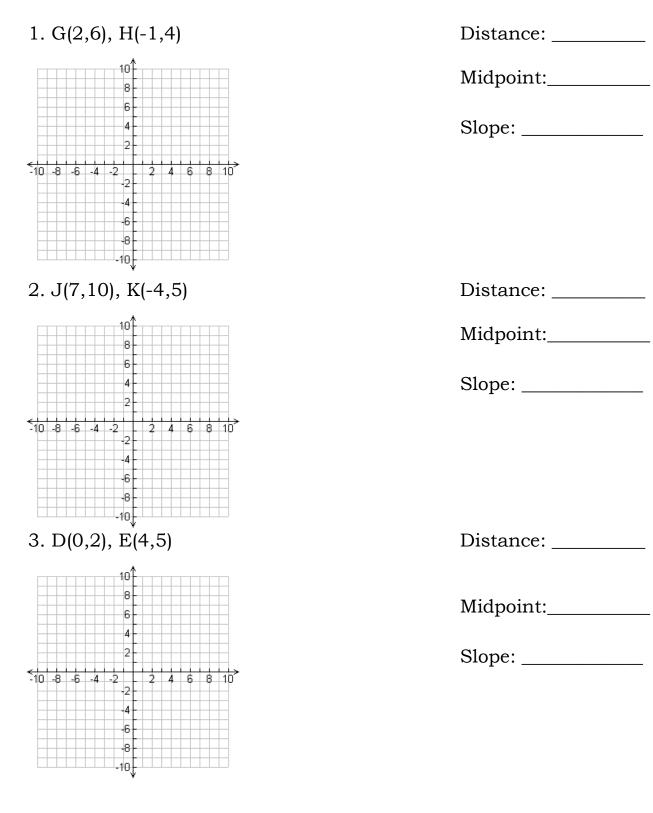
Intro. to Geometry	Intro.	to	Geom	etry
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Hour: \_\_\_\_\_

## **Distance and Midpoint Homework #1**

**Directions:** Use the Pythagorean Theorem or Distance Formula to find the distance of each segment, and then find the midpoint of each segment. <u>You</u> <u>must simplify radicals and fractions – no decimals!!!!</u>

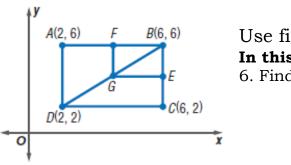


Name:\_\_\_\_\_

**Directions:** M is the midpoint of  $\overline{XY}$ . Find the missing endpoint's coordinates based on the given information.

4. M(2,3), X(-1,5) Find Y(x,y)

5. M(3,1), Y(-4,7) Find X(x,y).



Use figure to the left for 6-8. **In this figure**,  $\overline{GE}$  **bisects**  $\overline{BC}$  and  $\overline{GF}$  **bisects**  $\overline{AB}$ .  $\overline{FG} \perp \overline{GE}$ . 6. Find the coordinates of F, E and G. F: \_\_\_\_\_

E:	

7. Find the following lengths by calculating the distance between each endpoint.

AB=	BE=
BC=	BF=
CD=	BG=
BD=	DG=

8. Name conclusions or relationships that you can conclude based on the information you found in #6 and 7. It must be based on what YOU found, NOT what was given to you.