Unit 8 PRACTICE Assignment   Name _____ Class _____

Part A: Multiple Choice: Circle the Best Answer   **(5 Marks)**

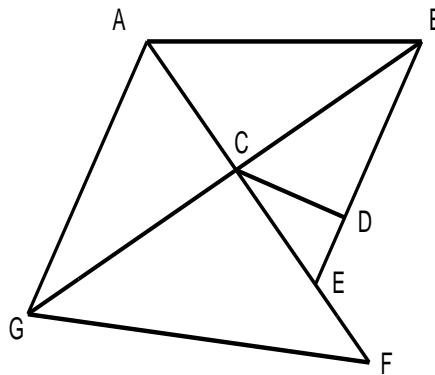1. What is the name given to a line that divides a line segment into two equal parts?

   A. Bisector
   B. Diagonal line
   C. Parallel line
   D. Angle Bisector

2. What is the name given to lines on the same flat plane that meet at a 90º angle?
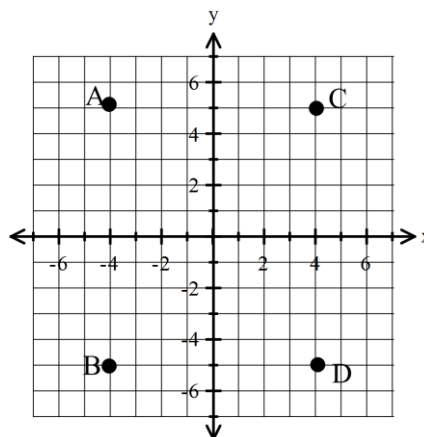
   A. Diagonal
   B. Intersecting Lines
   C. Parallel Lines
   D. Perpendicular Lines

3. Which statement is **true** ?

   A. $GF \parallel GB$

   B. $CB \perp GF$

   C. $AC \parallel CD$

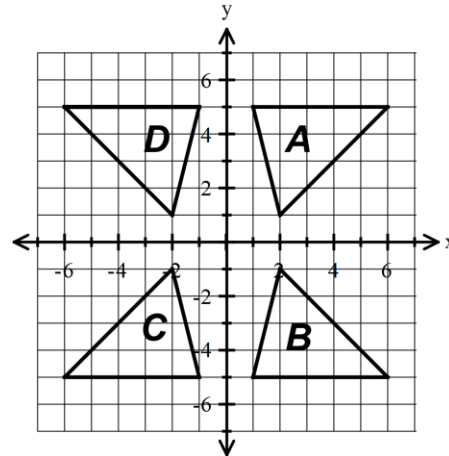   D. $AC \perp CG$

4. Which point has coordinates (-4, -5)?

   A. A
   B. B
   C. C
   D. D
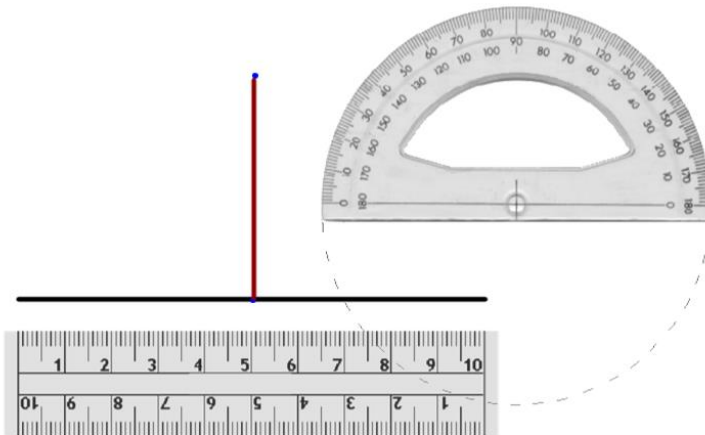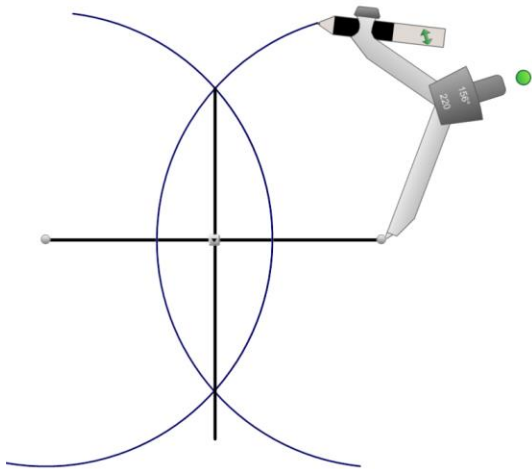
5. Which triangle is the image of triangle A after a reflection in the x-axis?
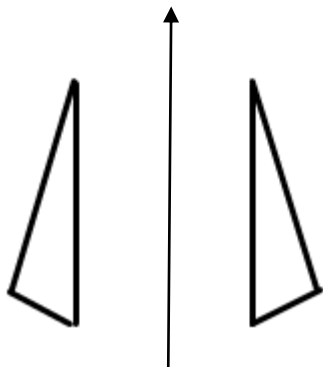
A. A
B. B
C. C
D. D

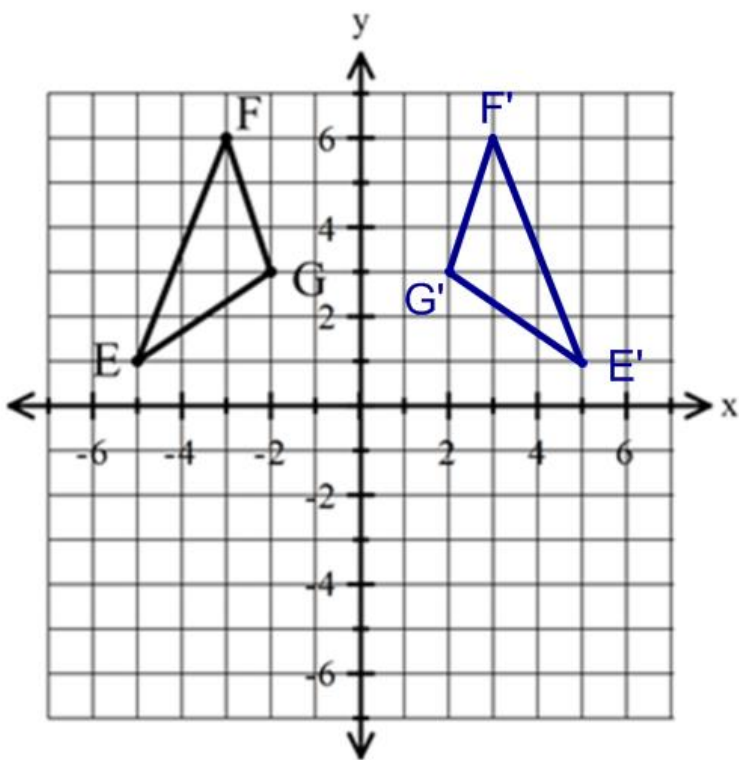**Part B: Complete all Questions (35 Marks)**

1. Draw a line segment $\overline{AB}$ of length 10cm and use a compass/ruler or protractor/ruler to find its perpendicular bisector (**3 Marks).**
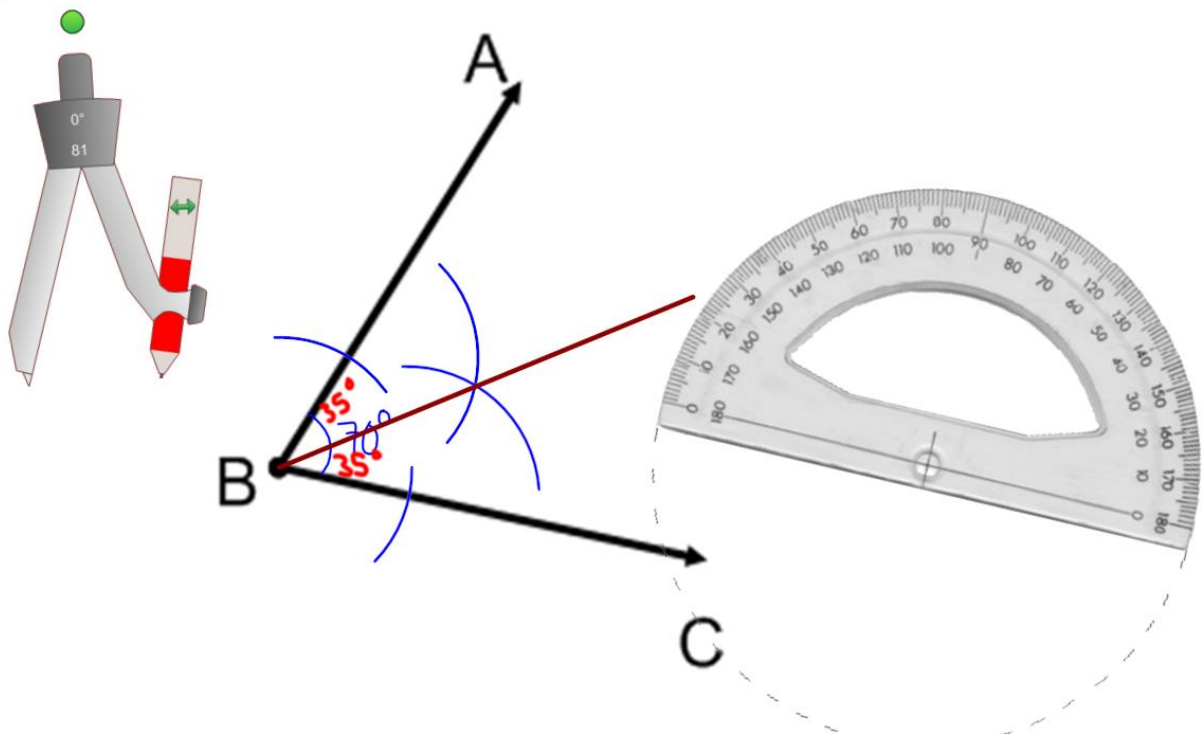
2. a) Draw the line of reflection for the objects below using a method of your choice. **(1 Mark)**
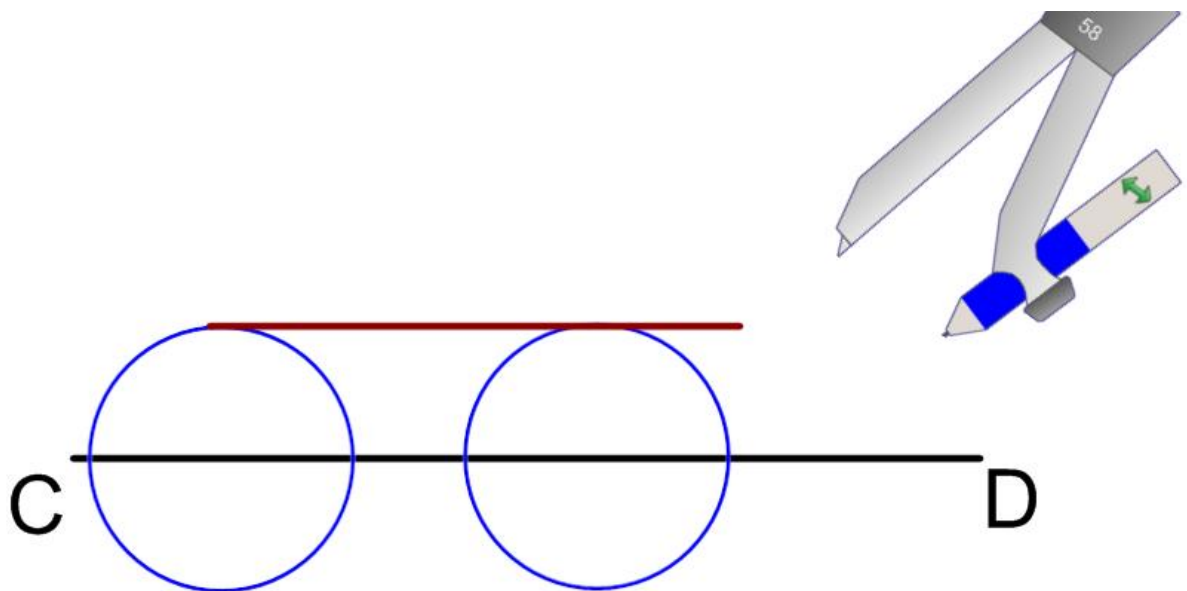
b)   Use the method of your choice to reflect ΔEFG in the **y-axis**. **(2marks)**

3.   a. Use a compass and ruler to bisect the angle below. **(2 marks)**

b. Use a protractor to prove you have bisected the angle. **(1 mark)**

A

B

C

35°
35°

4.   Draw a 9 cm line segment and label it CD. Use either a protractor/ruler or a compass/ruler to make a line parallel to this segment. **(3 Marks)**

C   D

5. Use the given diagram to answer the following questions. **(6 Marks)**
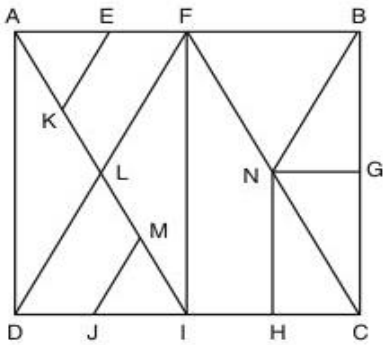
a) Find a line segments parallel to $\overline{JI}$ _____EF_____

b) Find 2 line segments perpendicular to $\overline{AD}$. _DJ and AE_____

c) Find a triangle that is a reflection of Δ FIL ___ΔALD_____

d) Find a triangle that is a translation of Δ FIL. ____ΔBNC_____

e) NG is a perpendicular bisector of what line segment? ____BC_____
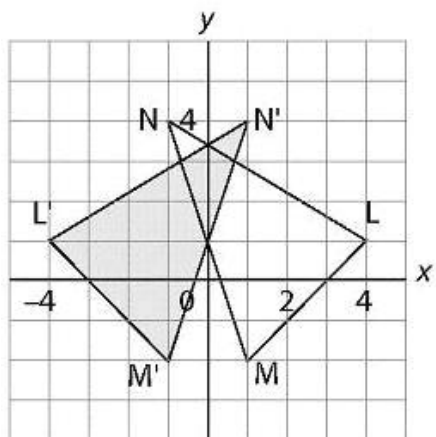
6. Find the coordinates of each of the following points. **(5 Marks)**

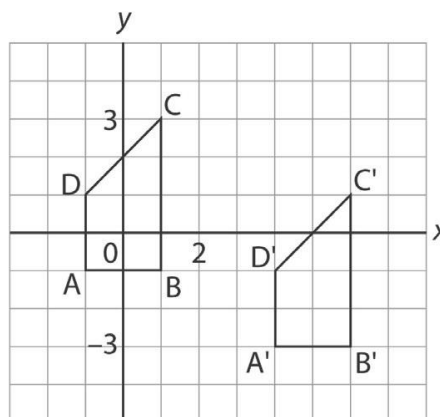A (2, 4)   B (0, -3)   C (3, -2)   D (-1, 0)   E (-4, -4)
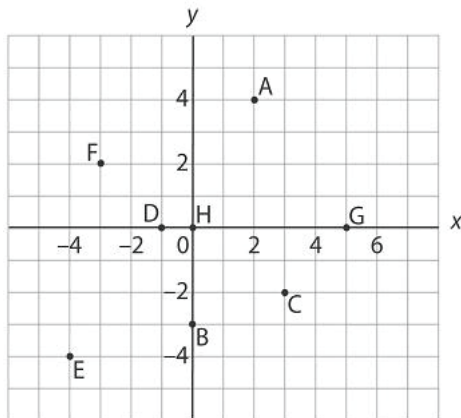
7. Identify each transformation as a translation (include the directions) or a reflection (include the line of reflection). **(4 Marks)**

Reflection in the y-axis   Translation 5 units right and 2 units down.

_____   _____

8. a) Number and label the axis on the coordinate grid below **(1 Mark).**

   b) Graph the following points: A (4,2), B (3,-1), C (1,2). Join them to form ΔABC
      (2 Marks).

   c) Translate the triangle [2L, 3U] to form ΔA'B'C' . **(2 Mark)**

   d) Rotate ΔABC 90º clockwise about the origin. Then identify the rotated points.**(3 Marks)**
            A'' (2 , -4)   B'' (-1 , -3) C'' (2 , -1)