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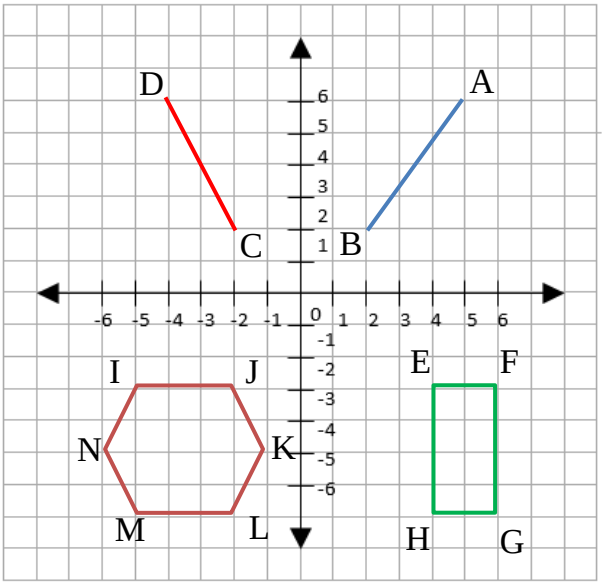
Distance between Two Ordered Pairs

1. Find the distance between each of the following ordered pairs.
   a. (2,7) and (5,7)
   b. (4,6) and (4,8)
   c. (3,6) and (6,6)
   d. (3,4) and (8,4)
   e. (4,0) and (1,0)
   f. (0,1) and (0,-4)

Solution:
a.
b.
c.
d.
e.
f.

2. Answer each of the following questions using the coordinate plane shown below.



   a. Find the distance between the point A in the first quadrant and the point D in the second quadrant.

   b. Find the length of the side EH of the rectangle EFGH.

   c. Find the length of the diagonal NK of the hexagon IJKLMN.

   d. Find the distance between point B in the first quadrant and point C in the second quadrant.

   e. Which of the four vertices of the rectangle is farthest from the origin?

   f. Which of the four vertices of hexagon IJKLMN is nearest to the origin?

   g. Write the coordinate of all the vertices of the rectangle EFGH.

Solution:
a.
b.
c.
d.
e.
f.
g.

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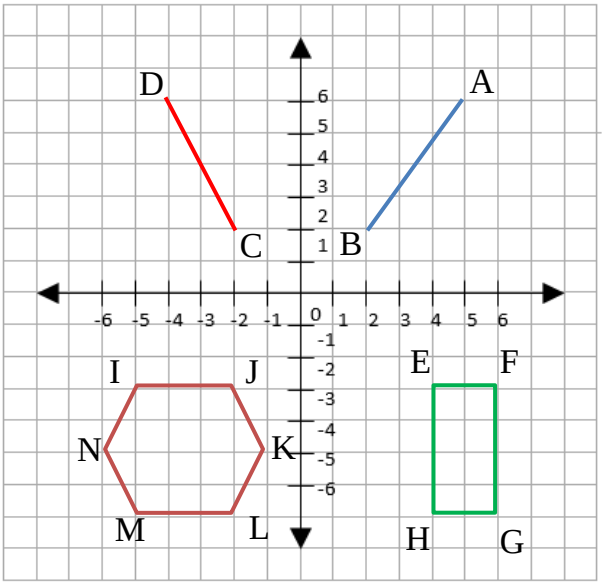
Answer Key

1. Find the distance between each of the following ordered pairs.
   a. (2,7) and (5,7)
   b. (4,6) and (4,8)
   c. (3,6) and (6,6)
   d. (3,4) and (8,4)
   e. (4,0) and (1,0)
   f. (0,1) and (0,-4)

Solution:
a. 3 units
b. 2 units
c. 3 units
d. 5 units
e. 3 units
f. 5 units

2. Answer each of the following questions using the coordinate plane shown below.



   a. Find the distance between the point A in the first quadrant and the point D in the second quadrant.

   b. Find the length of the side EH of the rectangle EFGH.

   c. Find the length of the diagonal NK of the hexagon IJKLMN.

   d. Find the distance between point B in the first quadrant and point C in the second quadrant.

   e. Which of the four vertices of the rectangle is farthest from the origin?

   f. Which of the four vertices of hexagon IJKLMN is nearest to the origin?

   g. Write the coordinate of all the vertices of the rectangle EFGH.

Solution:
a. 9 units

b. 4 units

c. 5 units

d. 4 units

e. G

f. J

g. E(4,-3), F(6,-3), G(6,-7), H(4,-7)