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

Worksheet 6.6 Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_\_\_\_\_\_\_

Directions: Use the properties of each figure to find the missing coordinates.



1) 2)

3) 4)



5) 6)

7) rhombus 8) kite

10) Quadrilateral *ABCD* is a rectangle. Find *x* and then length of each diagonal.

AC = 4x – 60 and BD = 30 – x



11) Use rhombus *ABCD* and the given information to find each measure.

a) m∠BCD

b) m∠BEC

c) AC

d) m∠ABD

e) AD

12) In kite *FGHJ* m∠JFK = 38° and m∠KGH = 63°. Find the following angle measures.

a) m∠FKJ b) m∠FJK c) m∠FKG

d) m∠KFG e) m∠FGK f) m∠GKH

g) m∠KHG h) m∠KJH j) m∠JHK