1) Directions: Use the given figure to place each statement under the correct category.



## 2) In the following figure, what assumptions can we make?

- a) C lies on  $\overline{BD}$ .
- b)  $\angle A$  is a right angle.
- c)  $\overline{AB} \cong \overline{FD}$
- d) D lies on m.
- e) B, C, & G are collinear.
- f)  $\overrightarrow{AB}$  is parallel to  $\overrightarrow{FD}$ .
- g) C is the midpoint of  $\overline{BD}$ .
- h)  $\triangle ABD$  is a triangle.
- i) B lies on  $\overrightarrow{GC}$ .



Directions: Explain what the symbol or phrase means.

3)  $\overline{AB} \parallel \overline{DE}$ 

4) JK = RW

5) A, B, & C are collinear

6)  $\angle J$  and  $\angle T$  are supplementary

7) m∠*ABC* = 30°

8)  $\angle W \cong \angle H$ 

9)  $m \angle W = m \angle H$ 

10)  $\angle Q$  and  $\angle F$  are complementary

11)  $\overleftarrow{PJ} \perp \overline{HI}$ 

12)  $\overline{RW}$  bisects  $\angle Y$