**Honors Geometry Logic Chains Name:**

Use a chain of reasoning to combine each of the following sets of statements into one conditional. For problems *b* and *d* write the statements symbolically first.

a)



b)

*If it is a dog then it has four legs.*

*If it barks then it is a dog.*

*If it has four legs then it has a tail.*

c)

*If the sides are perpendicular then they form right angles.*

*If it is a rectangle then the sides are perpendicular.*

*If the angles are right, then the angles are congruent.*

d)

