5.5 Practice Problem Hints

3) 1. First show triangle DEF = triangle DGF using SSS.

 2. Then show angle EDH = angle GDH by CPCTC

 3. Then show triangle DEH = triangle DGH by CPCTC

4) 1. Show triangle AGB = triangle DGE, then show AB = DE by CPCTC

 2. Show triangle BHC = triangle EHF, then show BC = EF by CPCTC

 3. Use segment addition postulate to show AC = DF.

5) 1. Show triangle ABE = triangle CBE by SAS.

 2. Show angle 4 = angle 5 using CPCTC.

 3. Show angle 3 = angle 6 since they are complementary to equal angles.

 4. Show triangle FAE = triangle DCE by SAS

 5. Show angle 1 = angle 2 by CPCTC.

6) 1. Show triangle ABD = triangle CDB by ASA.

 2. Show BC = AD by CPCTC.