Geometry - Congruent Triangles
12b Homework: Triangle Congruence Theorems

Name
Pd Date $\qquad$

In $1-4$, state what you know about the measurements of the sides and/or angles. Use that information to prove the triangles are congruent using one of your four methods: SSS, SAS, ASA, and AAS. Write a congruence statement for each followed by each the reason you know the triangles are congruent.

2.


4.

5. What does CPCTC mean?
6. Given $\triangle B C D \cong \triangle F H G$, solve for $x$. Then, give the length of the sides for each triangle.

7. Using the above triangles, we are given that $m \angle D=(4 y+12)^{\circ}, m \angle C=(5 y-8)^{\circ}$, and $m \angle F=(6 y-34)^{\circ}$. Solve for $y$ and use $y$ to find all the angle measures.

