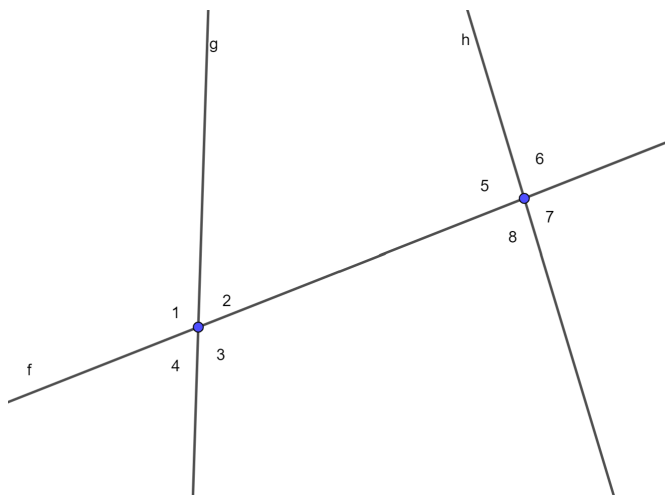


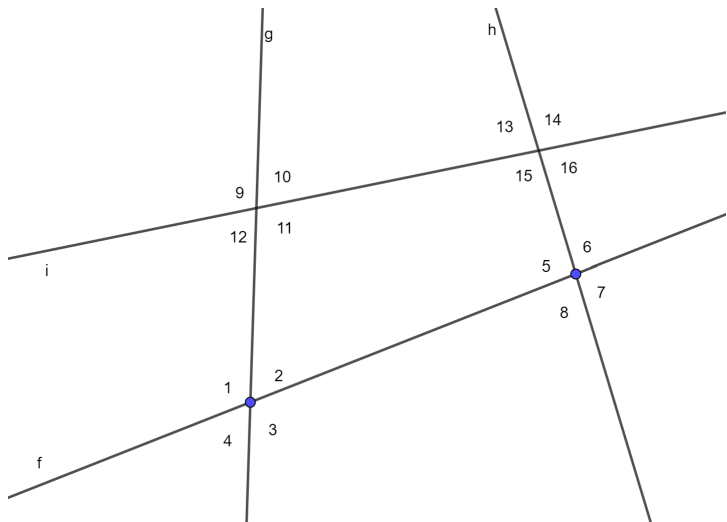
FSAP 9
Parallel Lines

Name: _____

1. In the following diagram identify one example of each of the following angle pairs: Corresponding angles, alternate interior angles, same side interior angles, and alternate exterior angles.



2. In the following figure, if lines h and g are parallel, which angles do you know are congruent and which are supplementary?



3. If we take for granted that when lines are parallel the corresponding angles are congruent, sketch out a proof that shows alternate interior and alternate exterior angles must be congruent.

4. If we take for granted that when lines are parallel the corresponding angles are congruent, sketch out a proof that shows same side interior and same side exterior angles must be supplementary.
5. How did we prove that the sum of the interior angles of a triangle is 180° ?