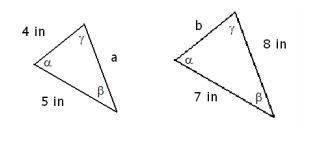
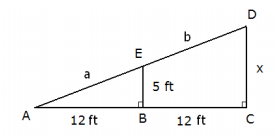
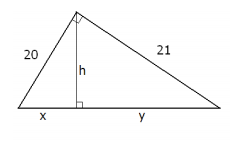
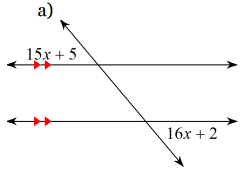
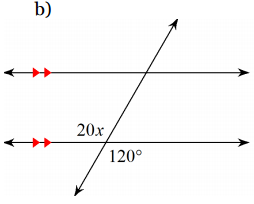
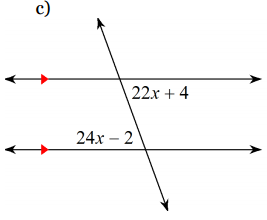
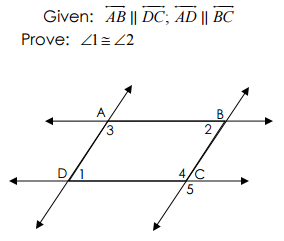
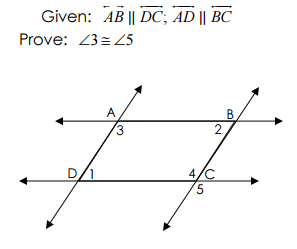
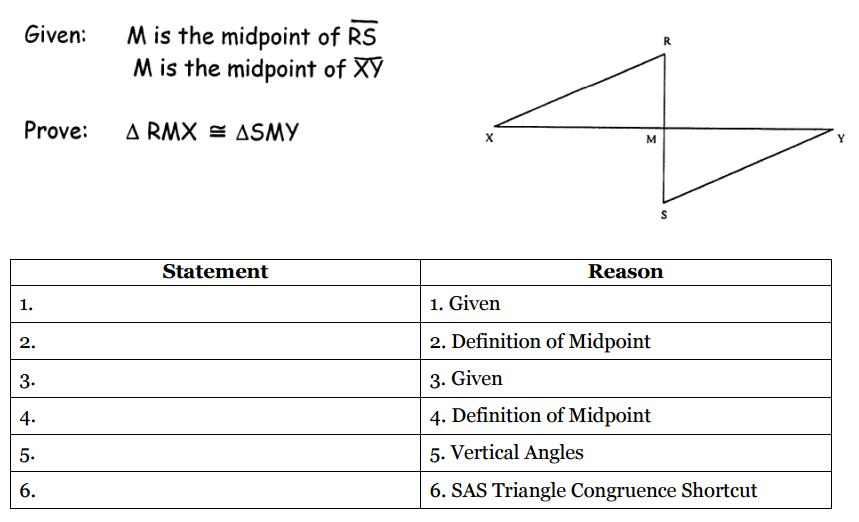
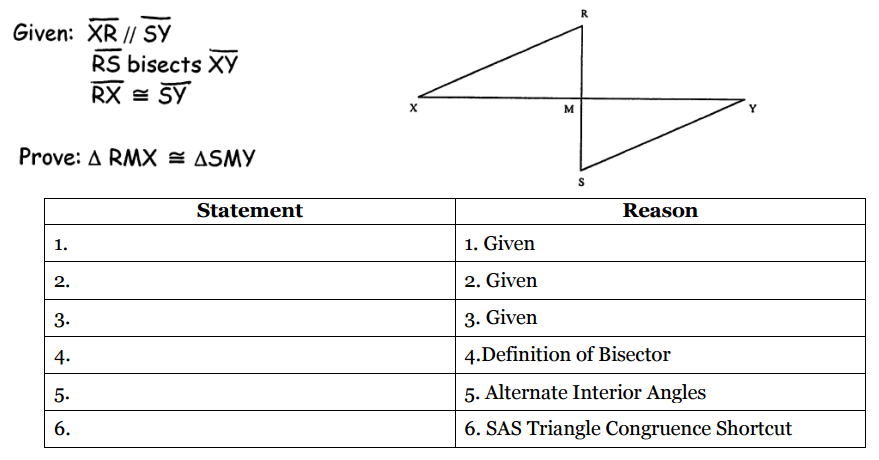
Station #5 – Similar Triangles

1. Find a and b for the two similar triangles:  
   
2. Consider the picture shown below:  
     
   a) Use the Pythagorean Theorem to find the value of *a*.  
     
     
     
   b) Prove that the triangles *ABE* and *ACD* are similar.  
     
     
     
     
     
   c) Use similar triangles to find the value of *x*.  
     
     
     
   d) Find the value of *b*
3. A person is standing 40 ft away from a street light that is 30 ft tall. How tall is he if his shadow is 10 ft long?
4. Find x, y and h (hint, use Pythagorean Theorem):

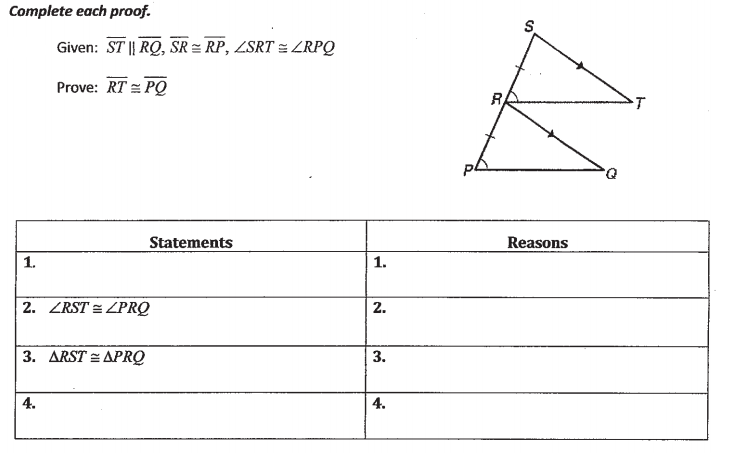
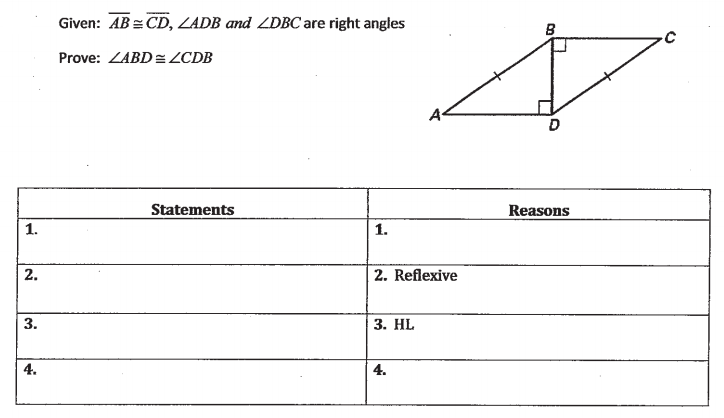
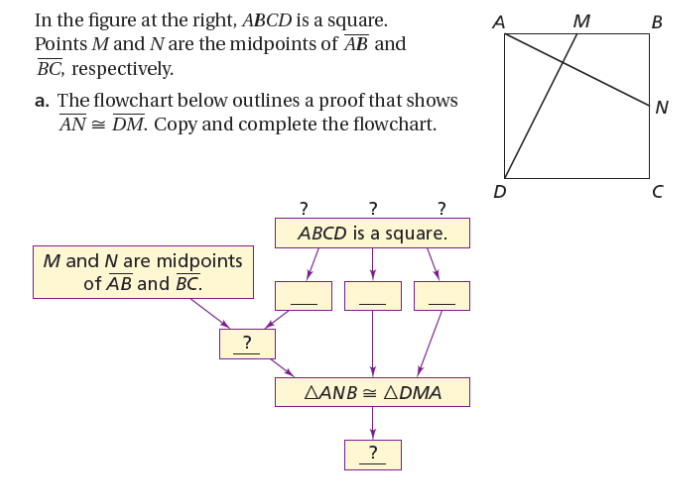
Station #1 – Parallel and Transversal Lines

1. Name the relationship between the measured angle, then find *x*:  
     
2. g 3)

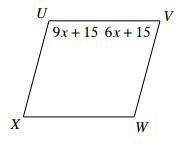
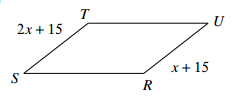
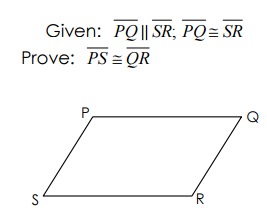
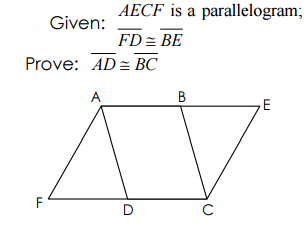
Station #2 – Triangle Proofs (Part 1)

1. 
2. 

Station #3 – Triangle Proofs (Part 2)

1. 
2. 

Station #4 – Parallelogram Proofs

1. Solve for *x*:  
   a) b)
2. 
4. 