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. 
3.

Station #3 – Triangle Proofs (Part 2)

1. 
2. 
3.

Station #4 – Parallelogram Proofs

1. Solve for *x*:
a) b)
2. 
3.
4. 