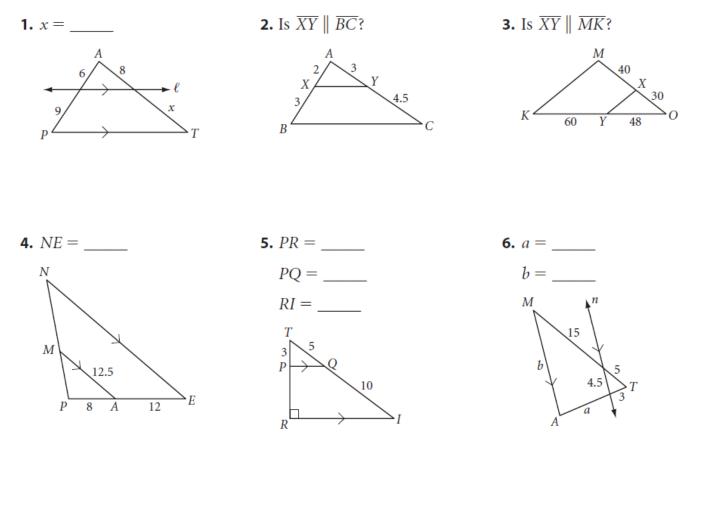
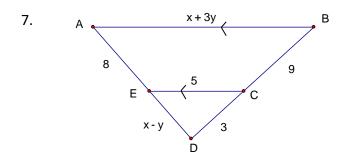
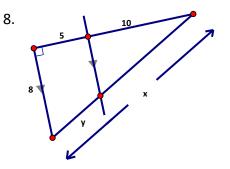
Name:	
Date: _	Period:

For #1-6, determine whether there are similar triangles. If there are, give the criteria (AA~, SAS~, SSS~). Then, solve for the requested measures. Make sure to show your work (proportions).

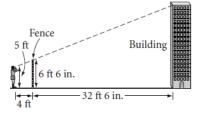




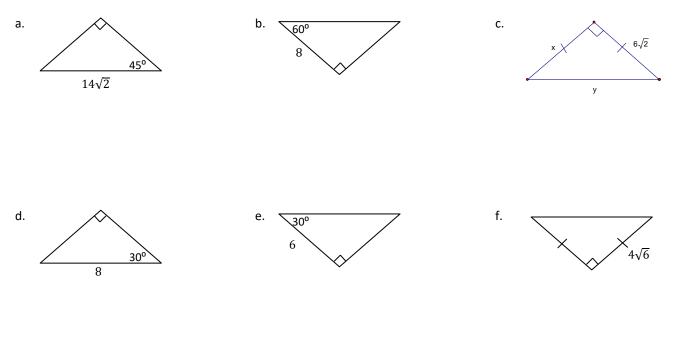


9. At a certain time of day, a 6 ft man casts a 4 ft shadow. At the same time of day, how tall is a tree that casts an 18 ft shadow?

10. Marta is standing 4 ft behind a fence 6 ft 6 in. tall. When she looks over the fence, she can just see the top edge of a building. She knows that the building is 32 ft 6 in. behind the fence. Her eyes are 5 ft from the ground. How tall is the building? Give your answer to the nearest half foot.



11. Solve for all missing sides of the triangles.



- 12. Find the length of the diagonal of a square with sides 10 inches long.
- 13. Find the length of a side of a square whose diagonal is 4cm.