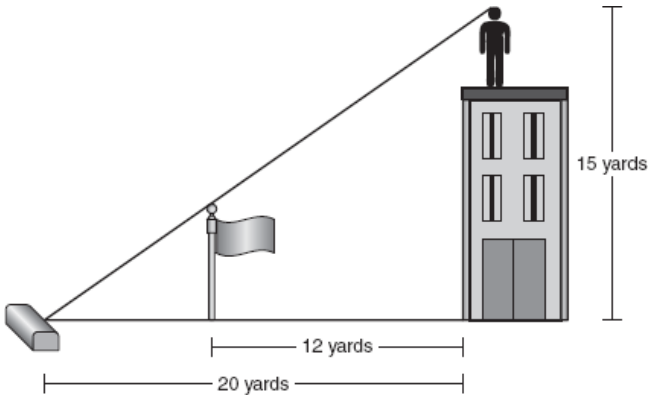
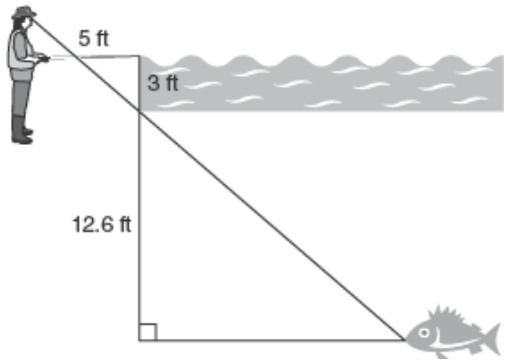
Chap 6 Review (SHOW ALL WORK!) **Name:** _____

1. Carla looks from a height of 15 yards at the top of her apartment building. She lines up the top of a flagpole with the curb of a street 20 yards away. If the flagpole is 12 yards from the apartment building, how tall is the flagpole?

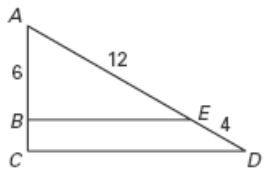


2. Victoria holds a 5 foot long fishing pole. The fishing line extends 3 feet to the water's surface and then another 12.6 feet to a hook. How far is the fish from the hook?

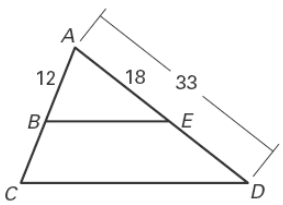


#3-4, Given ΔABE~ ΔACD, find BC.

3.

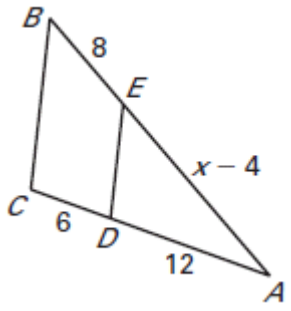


4.

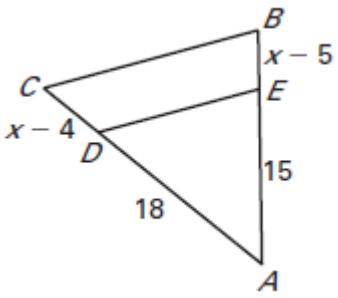


5. The ratio of angles in a triangle is 1:7:10. Find the measure of each angle.

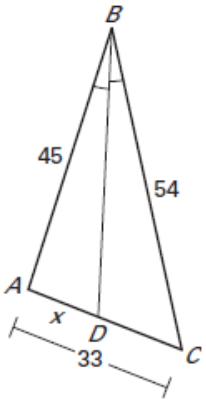
6. Find the value of x.



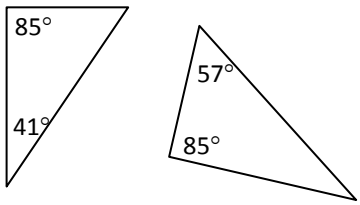
7. Find the value of x.

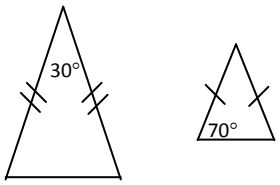


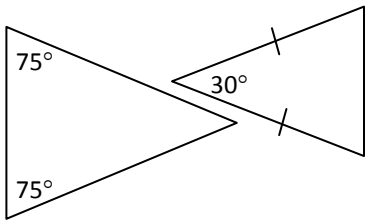
8. Find the value of x.

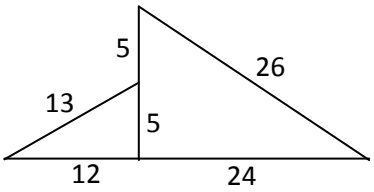


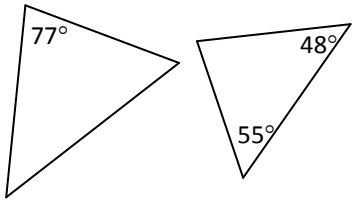
9. **Decide whether the triangles shown are *similar*, *not similar*, or *cannot be determined* from the given information. If they can be determined to be similar, state by which postulate or theorem.**

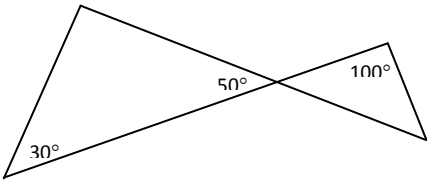


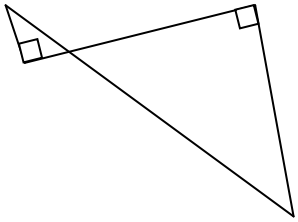


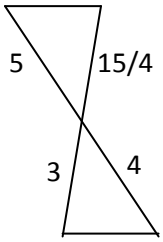


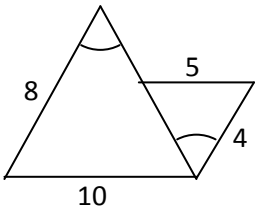




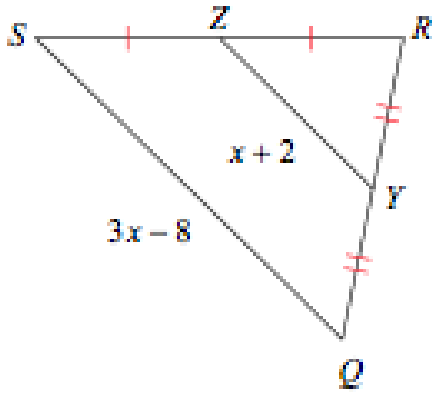






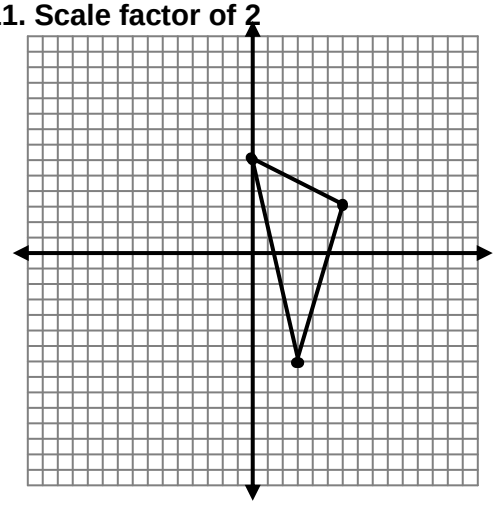


10. Find the value of ZY and SQ given then ZY is a midsegment.



11-12. For questions #1-2, draw the image of each under the following dilation centered at (3, -1).

11. Scale factor of 2



12. Scale factor of 1/2