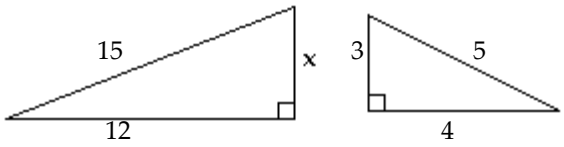
Similiar Triangles
Prerequisite:Proportions
Dressler Fall 2016

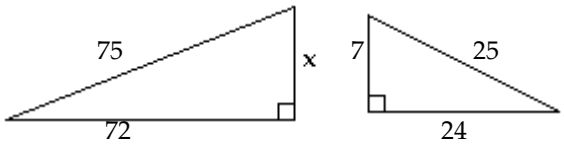
Name_____

Find the missing length in the similar triangles.

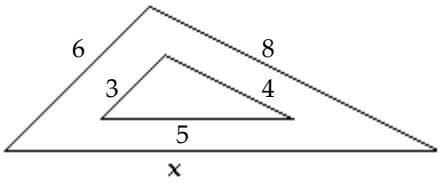
1) 1) _____



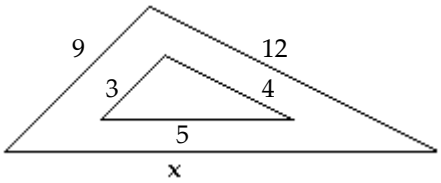
2) 2) _____



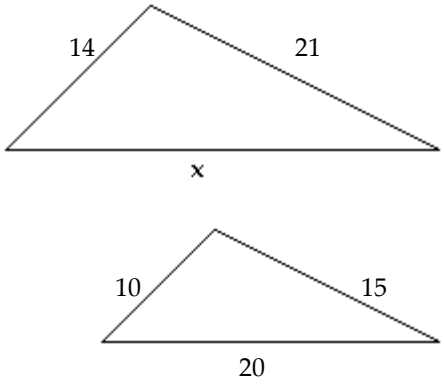
3) 3) _____



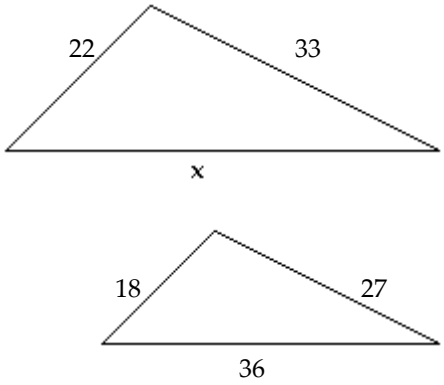
4) 4) _____



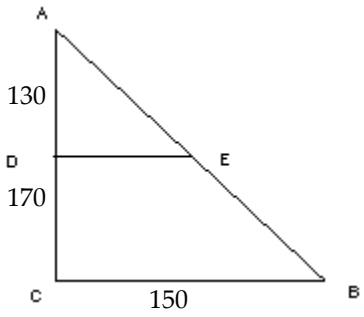
5) 5) _____



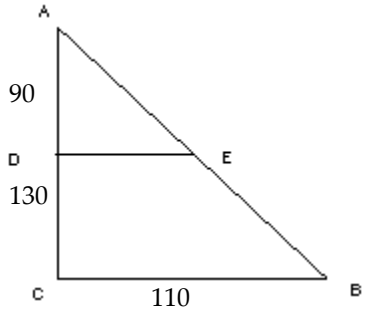
6) 6) _____



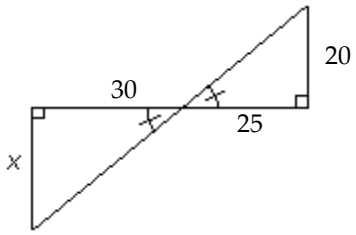
7) Find the length of DE. 7) _____



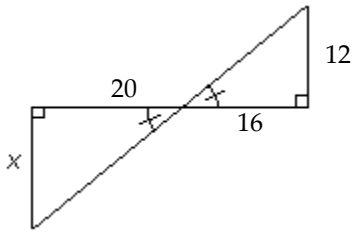
8) Find the length of DE. 8) _____



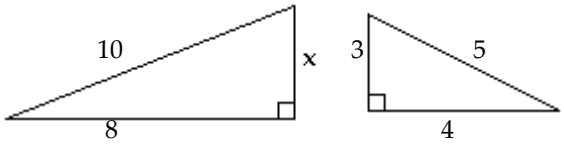
9) 9) _____



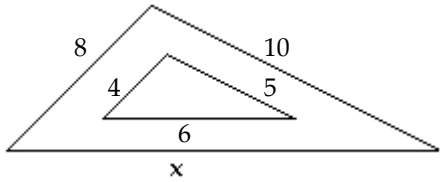
10) 10) _____



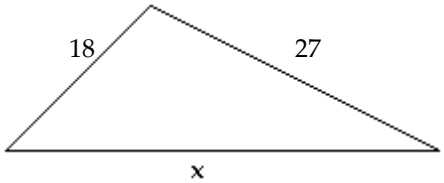
11) 11) _____

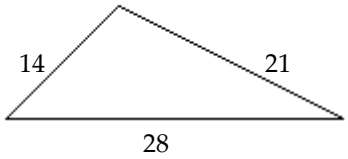


12) 12) _____



13) 13) _____





Solve the problem.

14) A flagpole casts a shadow of 23 ft. Nearby, a 10–ft tree casts a shadow of 5 ft. What is the height of the flag pole? 14) _____

15) A flagpole casts a shadow of 36 ft. Nearby, a 10–ft tree casts a shadow of 9 ft. What is the height of the flag pole? 15) _____

16) A vehicle parked on the street that is 4 feet tall casts a shadow 12 feet long. At the same time, a house nearby casts a shadow 84 feet long. Find the height of the house. 16) _____

17) A vehicle parked on the street that is 6 feet tall casts a shadow 24 feet long. At the same time, a house nearby casts a shadow 64 feet long. Find the height of the house. 17) _____

1) x = 9
2) x = 21
3) x = 10
4) x = 15
5) x = 28
6) x = 44
7) DE = 65
8) DE = 45
9) 24
10) 15
11) x = 6
12) x = 12
13) x = 36
14) 46 ft
15) 40 ft
16) 28 ft
17) 16 ft