Simplify:
1) \(\sqrt{343}\)   
2) \(3\sqrt{320}\)   
3) \(-4\sqrt{350}\)   
4) \(\frac{11}{\sqrt{7}}\)   
5) \(\frac{9}{\sqrt{3}}\)   
6) \(\frac{100}{\sqrt{5}}\)

Find the geometric mean:
7) 67 and 98   
8) 65 and 212   
9) 717 and 888   
10) 123 and 65

Find each of the missing sides:
11) \(\quad\)   
12) \(\quad\)   
13) \(\quad\)   
14) \(\quad\)

Draw a diagram and answer each of the following:

15) A 15.5ft ladder is leaning against a building. The distance between the ladder and the building is 6.3 feet. How far up the building is the ladder?

16) A rectangle has sides of 12 and 8 inches. What is the length of a diagonal of the rectangle?

17) The distance between consecutive bases in a baseball diamond is 90 ft. How far is it from 1st to 3rd base? (nearest tenth)

Prove whether the following are the sides of a right triangle:
18) 7, 24, 25   
19) 56, 58, 64   
20) 13, 17, 22