Special Right Triangles Worksheet

Exercises 1-6 refer to the 30-60-90 triangle. Using the given information, find the indicated length.

![30-60-90 Triangle Diagram]

1. AB=14; BC=
2. BC=7; AB=
3. BC=8; AC=
4. AB=16; AC=
5. AC=9√3; BC=
6. AC=4√3; AB=

Exercises 7-12 refer to the 45-45-90 triangle. Using the given information, find the indicated length.

![45-45-90 Triangle Diagram]

7. XY=7; XZ=
8. YZ=10; XZ=
9. XZ=11√2; YZ=
10. XZ=10; XY=
11. YZ=7√2; XZ=
12. XZ=12; YZ=

13. The length of the hypotenuse of a 30-60-90 triangle is 20. What is the length of the shorter leg?

14. A ladder leaning against a wall makes a 60 angle with the ground. The base of the ladder is 3 m from the building. How high above the ground is the top of the ladder?