

4) A ladder is leaning against a building. If the angle of depression is 58° and the base of the ladder is 8 feet from the base of the building? How long is the ladder?

5) A boy is sitting on the floor flying a kite. He has 450 feet of string. The angle of elevation is 64° . How high is the kite?

6) An apple tree casts a 54-foot shadow. If the angle of depression is 36° , how tall is the tree?

Answer Key

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| 1 | 15 feet |
| 2 | 59.41 feet |
| 3 | 30.4° |
| 4 | 15.1 feet |
| 5 | 404.5 feet |
| 6 | 39.2 feet |
| 7 | 54.6 feet |
| 8 | 73° |
| 9 | 164 yards |