

Worksheet 6.2C

Solving a right triangle means finding the missing angles and sides. Many real life problems involve solving a right triangle.

1. If the sun is 20° above the horizon, how tall is a flagpole that casts a 50ft shadow?
2. If the sun is 20° above the horizon, how long is the shadow cast by a 40 ft. flagpole?
3. A kite is flying on a string that is 100 ft long. The string makes an angle of 34° with the ground. How high is the kite?
4. A kite is flying on a string that makes an angle of 34° with the ground. How long is the string if the kite is 90ft. above the ground?
5. You are flying a kite on a string that is 100 ft long. The string makes an angle of 41° with the ground. A small boy is directly under the kite. How far away from you is the boy?
6. You are flying a kite on a string which makes an angle of 50° with the ground. A small boy who is 75ft. away is directly beneath the kite. How long is the kite string?