

Math Grades 10 - 12
Right Triangle Trigonometry

MA.912.T.2.2

The Crimson Fairy Book

“Niels and the Giants”

Traditional folk tale

Reading Level: 6.3

Activity:

The following is an excerpt from the reading. *“It began to get colder, and Niels began to walk about a little to keep himself warm. He soon found that they were not far from the edge of the forest, and when he climbed up one of the trees there he could see out over the open country beyond. At a little distance he saw a fire, and beside it there sat three giants, busy with broth and beef.”* If Niels is 25 feet up in the tree and the angle of depression to the giants is 30° , find the distance from the base of the tree to the giants. Draw a picture and use trigonometric ratios to solve.