Answer on Question #84527 – Math – Trigonometry

Question

A person 55-ft tall casts a shadow 1111-ftft long. At the same time, a nearby tree casts a shadow 3131-ft long. Find the height of the tree.

Solution

Find the ratio of length shadow to the height object:

 $k = 1111 / 55 \rightarrow k = 20.2$ Find the height of the tree: $h = 3131 / 20.2 \rightarrow h = 155$ Answer: 155-ft.

Answer provided by https://www.AssignmentExpert.com