

Math by Design
Windjammer Environmental Center Tasks and Subtasks

Access for All!

Everyone wants to be a part of the environmental center! Help to upgrade the ramp, located in the southeastern corner, so that the environmental center is safe and accessible. Adding curbs for safety is a must!

Access for All Subtask 1: Cover the ramp with a new, slip-resistant surface.

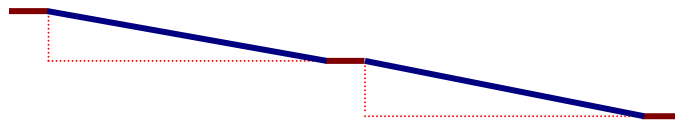
Details:

Use the side view of the ramp to help you calculate the lengths.

Round lengths of the inclined sections to the nearest tenth of a foot.

Side view:

Flat sections (shown in brown) are 6 feet long.



Inclined sections (shown in blue) have a vertical rise of 18 inches and a horizontal run of 21 feet. The rise and run are shown in red.

Access for All Subtask 2: Install curbs on both sides of the ramp.

Details:

Use the side view to calculate the lengths. (Remember: You found the length of one inclined section to be 21.1 feet.) Round your answer to the nearest tenth of a foot.