



Objective

Model the speed of a tsunami.



How are tsunamis formed?



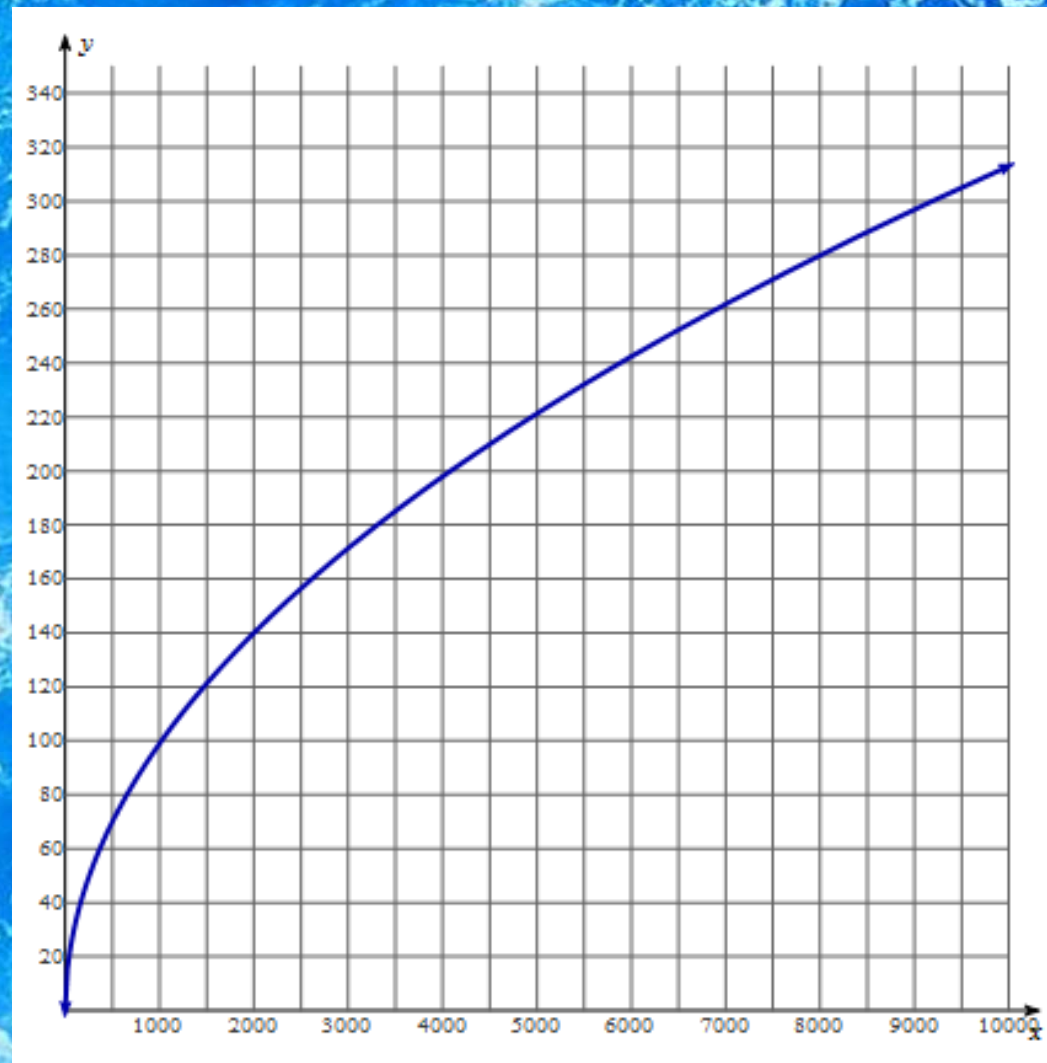
Estimating the speed of a tsunami.

$$S(d) = \sqrt{9.8d}$$

$S(d)$ = Speed in meters per second
 d = depth of water in meters

$$S(d) = \sqrt{9.8d}$$

Meters/second



Meters



Information has just come in via satellite that a tsunami has been located off Hilo, Hawaii at an ocean depth of 4,500 m.

National authorities are trying to establish how much preparation time these cities will have:

- San Diego, California
- Newport, Oregon
- Kodiak, Alaska

An aerial photograph of a vast ocean with deep blue water and white-capped waves. The text is overlaid on the image in a red, serif font.

Make a plan:

1. What I want to know.

2. My plan to make that happen .

3. Information needed.