

Unit 7 Linear Relations

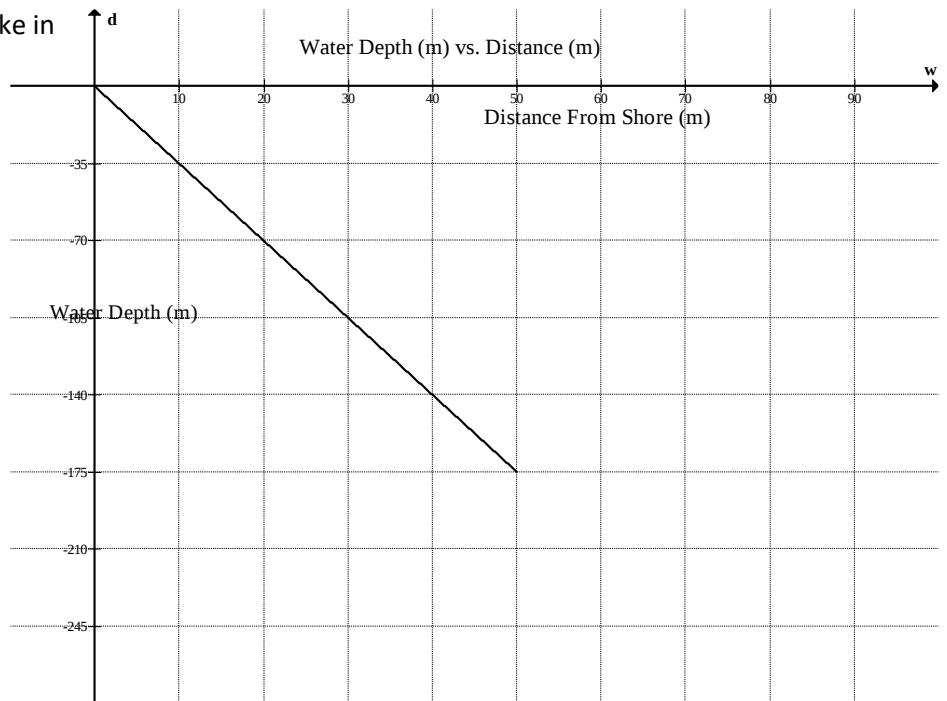
7.3 Graphing Linear Relationships

Ex. Great Slave Lake is the deepest lake in North America. It has a maximum depth of 614 m. Jill collected data about the depth of the lake from shore to a distance of 50 m from shore, which she then graphed.

a) Determine a linear equation for this graph.

* make a table of values for the data to help identify a pattern

Distance, d (m)	Depth, w (m)



b) Is it reasonable to interpolate or extrapolate values from this graph?

c) Approximate the depth at 28 m away from shore. Verify your solution.

d) How far away from shore would you expect to reach the maximum depth of 614 m?

e) At what rate is the depth of the water decreasing?

Ex. Graph each table of values and determine the equation that represents each graph.

Table 1

x	y
-2	3
-1	3
0	3
1	3
2	3

Table 2

x	y
-2	-1
-2	0
-2	1
-2	2
-2	3

