Lecture Handout #02: Sep 1

Air Temperature Data

Temperature of air at different altitudes:

Height h (km) 0 1 2 3 Temp T (°C) 15 8 1 -6

What formula relates *T* and *h*?

Linear Data?

Some values of a function g(x):

Is g(x) linear?

Slope and Point-Slope Formulas

Given two points on a line, find the slope and a function f(x) whose graph is the line:

	Points		Slope	Function $f(x)$
(a)	(4,5)	(-2, -1)		
(b)	(2,5)	(0, -1)		
(c)	(2,0)	(-1,6)		
(d)	(-1,1)	(3,3)		
(e)	(-1,2)	(2,2)		
(f)	(3,0)	(2,1)		
(g)	(1,1)	(1,4)		

What do these lines all have in common?