

Exercise 54

For the following exercises, which of the tables could represent a linear function? For each that could be linear, find a linear equation that models the data.

x	0	2	6	8
$k(x)$	6	31	106	231

Solution

This table does not represent a linear function because as x increases from 0 to 2, $k(x)$ increases from 6 to 31, but as x increases from 6 to 8, $k(x)$ increases from 106 to 231. This is a nonlinear function.