Lesson 7 Homework Practice

Linear and Nonlinear Functions

Determine whether each table represents a *linear* or a *nonlinear* function. Explain.

1.

x	1	2	3	4
y	4	5	6	7

2.

x	0	2	4	6
y	2	6	18	38

3.

x	4	6.5	9	11.5	14
y	3	8	13	18	23

4.

x	1.5	3	4.5	6
y	2	4	8	16

5. The table shows the cost of long distance calls as a function of the number of minutes used. Is the cost a linear or nonlinear function of the number of minutes used? Explain.

Number of Minutes	40	80	120	160	200
Cost ($)	4.00	8.00	12.00	16.00	20.00

6. MINIMUM WAGE The graph shows a state's minimum wage from 2005 to 2012. Would you describe the yearly increase as linear or nonlinear? Explain your reasoning.

Washington's Minimum Wage