

Name _____

1. (6 points) Tom has worked at the Yo-Yo Emporium since 1975. His hourly earnings are recorded every fifth year and are listed in the table below.

Year	1975	1980	1985	1990	1995
Hourly Earnings	\$3.23	\$4.53	\$6.66	\$8.57	\$10.07

- (a) What is the average rate of change of Tom's hourly earnings between 1990 and 1995?
- (b) If the average rate of change of his hourly earnings continues at the same rate as between 1990 and 1995, then what is the first year that Tom will earn more than \$15.00 per hour?

2. (4 points) Exactly one of the following three functions (f , g , or h) is a linear function of t . Determine which one and find a formula for it.

t	f
0	10
5	9
10	6
15	5

t	g
0	4
5	1
10	-2
15	-5

t	h
0	3
5	6
10	12
15	24