

Finding Equations 4.6

Name _____ Period _____

For each table fill in the missing values as if it is a linear relationship for $f(x)$ and also fill in the missing values as if it is an exponential relationship for $g(x)$.
Then find the function equation for each.

1.

x	1	2	3	4
f(x)	5			40
g(x)	5			40

$f(x)=$

$g(x)=$

2.

x	1	2	3	4	5
f(x)	1.5				121.5
g(x)	1.5				121.5

$f(x)=$

$g(x)=$

3.

x	0	1	2	3	4	5
f(x)	7					82
g(x)	7					82

$f(x)=$

$g(x)=$

4.

x	1	2	3	4	5	6	7
f(x)		25					100
g(x)		25					100

$f(x)=$

$g(x)=$

For each pair of coordinates find both a linear and exponential function that goes through them.

5. (3, 2.5) (8, 80)

6. (4, 5) (6, 125)