

Math 10 - Survey of College Mathematics Additional Problems for Chapter 6
M. Eastman due on the day of the Final Exam

Find the linear function (form $f(x) = mx + b$) for the given data:

1.

x	$f(x)$
1	5
2	8
3	11
4	14

2.

x	$f(x)$
1	7
2	2
3	-3
4	-8

3.

x	$f(x)$
1	4.1
2	5.4
3	6.7
4	8.0

4.

x	$f(x)$
-1	3.84
0	2.61
1	1.38
2	0.15

5.

x	$f(x)$
1	-12.65
2	-9.24
3	-5.83
4	-2.42

6.

x	$f(x)$
1	0.27
2	-4.31
3	-8.89
4	-13.47

Find the quadratic function (form $g(x) = ax^2 + bx + c$) for the given data:

7.

x	$g(x)$
0	2
1	1
2	6

8.

x	$g(x)$
-1	-4
0	3
1	6

9.

x	$g(x)$
0	-5
1	2
2	11

10.

x	$g(x)$
-1	7
1	1
2	-14

11.

x	$g(x)$
1	9
2	9
3	7

12.

x	$g(x)$
1	3
3	5
5	23

Find the exponential function (form $h(x) = a \cdot b^x$) for the given data:

13.

x	$h(x)$
0	3
1	6
2	12

14.

x	$h(x)$
0	16
1	12
2	9

15.

x	$h(x)$
0	8.00
1	5.60
2	3.92

16.

x	$h(x)$
1	18
2	12
3	9

17.

x	$h(x)$
1	8.4
2	11.76
3	16.464

18.

x	$h(x)$
1	16.00
2	12.80
3	10.24

