

**Constructing Linear, Quadratic, and Exponential Models of Data -
Matching Worksheet**

Write the letter of the answer that matches the problem.

- _____ 1. Look at this table and Write a linear ($y = mx + b$), quadratic ($y = ax^2$), or exponential ($y = a(b)^x$) function that models the data.

x	y
1	2
3	10
5	18
7	26

- a. Quadratic

$$y = x^2 - 3x + 1$$

- _____ 2. Look at this table and Write a linear ($y = mx + b$), quadratic ($y = ax^2$), or exponential ($y = a(b)^x$) function that models the data.

x	y
1	5
2	7
3	11
4	19

- b. Linear

$$y = 4x - 2$$

- _____ 3. Look at this table and Write a linear ($y = mx + b$), quadratic ($y = ax^2$), or exponential ($y = a(b)^x$) function that models the data.

x	y
0	1
2	-7
4	5
6	19

- c. Exponential

$$y = 2^x + 3$$

