

## Linear, Quadratic or Exponential

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_ Hour:

Below you are given several situations that are either linear, quadratic, exponential or neither. If they are linear, quadratic or exponential tell how you know and write a function for the situation. If they are neither tell why not.

1) The fine of a ticket for speeding is based on how fast the driver is going. The fine is \$90.00 plus \$7.00 for each mile over the speed limit the car is traveling.

2) A company is offering a sale on air conditioners. The price is based on how many days the sale runs for. A table of the price is given below.

Day	1	2	3	4	5	6
Price (\$)	\$400.00	\$390.00	\$370.00	\$340.00	\$300.00	\$250.00

5) You join an online music download organization below is the chart of your costs.

Number of CD's Orde	red 0	1	2	3	4	5
Cost	\$15.00	\$17.00	\$19.00	\$21.00	\$23.00	\$25.00

6) A circle is cut by a number of straight cuts (not necessarily all through the center). The number of pieces is given in the following table.

Number of Cuts	0	1	2	3	4
Number of Pieces	1	2	4	7	11