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Chapter 8: Exponential Functions

Linear, Quadratic and Exponential Models

Identify the following equations as linear, quadratic, or exponential.

1) $x^2 - 3x + 5$ _____

5) $(x - 1)^2 - 3$ _____

2) $2^x + 1$ _____

6) $-5x + 1$ _____

3) $2x - 9$ _____

7) $4 - \frac{2}{3}x$ _____

4) $-6(2)^x$ _____

8) $8\left(\frac{1}{2}\right)^x$ _____

Determine whether the following table of values represents a linear function, an exponential function, or a quadratic function.

9) _____

x	-2	-1	0	1	2
y	$\frac{1}{2}$	1	2	4	8

10) _____

x	-2	-1	0	1	2
y	5	2	1	2	5

11) _____

x	-2	-1	0	1	2
y	-4	-1	2	5	8