Linear, Quadratic, or Exponential?

For each equation and table, classify the function and linear, quadratic or exponential and explain your answer.

1) $y = 3x^2 - 4x + 7$

2) $y = -x$

3) $y = 6$

4) $y = 3\left(\frac{1}{2}\right)^x$

5) $y = -4(x + 3)^2 + 5$

6) $y = 4 - 2x$

7) $y = x^2 - 3$

8) $y = 6^x$

9) $y = -(x + 7)(x - 4)$

10)

x	y
-2	-4
-1	-7
0	-10
1	-13
2	-16

11)

x	y
-2	-3
-1	0
0	5
1	12
2	21

12)

x	y
-2	115
-1	82
0	55
1	34
2	19

13)

x	y
-2	2 1/12
-1	2.5
0	3
1	3.6
2	4.32

14)

x	y
-2	13 1/2
-1	9
0	6
1	4
2	2 2/3

15)

x	y
-2	33
-1	25 2/3
0	19 2/3
1	15
2	11 2/3