

Name: _____

Linear or Exponential Homework

Say whether the given equation, table, or situation is linear or exponential, and explain why.

1) $y = 4x + 2$

2) $y = 3 \cdot 4^x$

3)

x	y
0	5
1	15
2	45
3	135
4	405

4)

x	y
0	100
1	85
2	70
3	55
4	40

5) The population of fish in a pond doubles every 3 years.

6) A man weighs 225 pounds, and loses 6 pounds per month.

Write an equation from the given table.

7)

x	y
0	5
1	10
2	20
3	40
4	80

8)

x	y
0	8
1	20
2	32
3	44
4	56

9)

x	y
0	120
1	60
2	30
3	15
4	7.5

10)

x	y
0	20
1	30
2	45
3	67.5
4	101.25