Equation of a Straight Line- Independent Practice Worksheet

Complete all the problems.
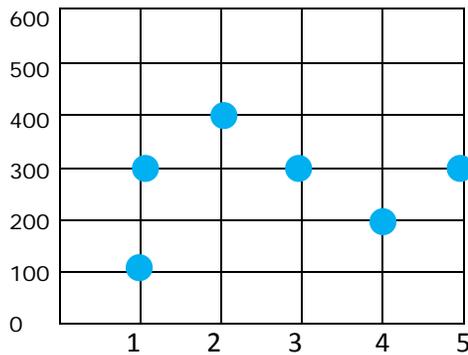
1) Which equation is non-linear?

a) $j = 5k - 2$

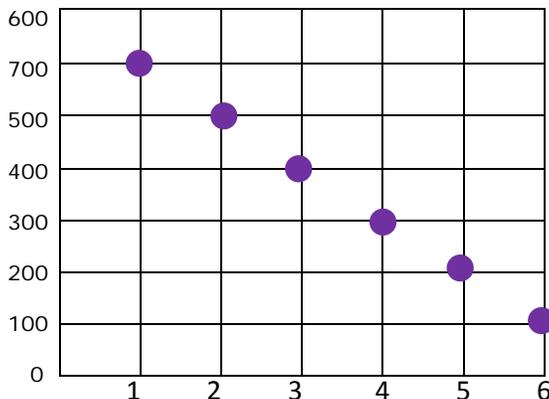b) $j = 6k^6 + 7$

2) Which equation is non-linear?

a) $h = 8 + 8y^9$
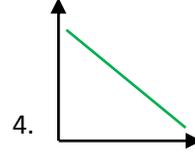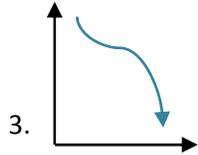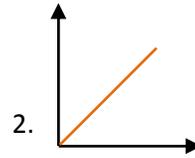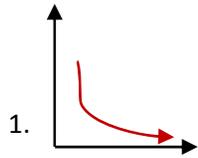
b) $h = 4y^2 - 1$

3) Is this a graph of a linear or non-linear equation?
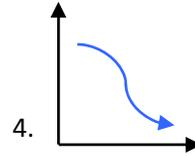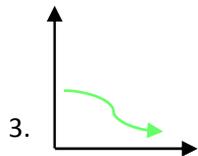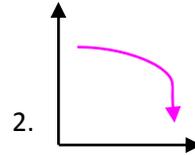

4) Is this a graph of a linear or non-linear equation?
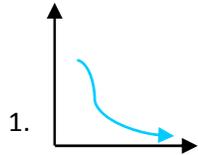
Name _____   Date _____

5) Which functions are linear? Select the circle.

1.   ◯

2.   ◯

3.   ◯

4.   ◯

6) Which functions are non-linear? Select the circle.

1.   ◯

2.   ◯

3.   ◯

4.   ◯

7) The points below are created by an equation. Is the equation linear or non-linear?

x	y
1	15
2	35
3	20
4	40
5	45
6	25

Name _____   Date _____

8) Is it linear?

x	y
0	50
5	100
10	150
15	200
20	250
25	300

9) Which equation is non-linear?

a) d = 9 – 2p

b) $d = 5p^4 + 2$

c) d = 3p - 10

10) Which equation is linear?

a) $a = 5t^{10} + 8$

b) $a = 41t^8 + 5$

c) a = 23t + 10