Identify Linear Functions (Table)

Name:

Determine if the table shown represents a linear function (yes) or not (no).

1)

$Y=\sqrt{X}+4$	
X	**Y**
10	7.162
1	5
4	6
6	6.449
8	6.828

2)

Y=-X	
X	**Y**
-1	1
-3	3
-6	6
7	-7
9	-9

3)

$Y=6^X+8$	
X	**Y**
-1	8.167
-2	8.028
-5	8.000
-6	2,100.000
8	1,679,624

4)

$Y=\sqrt{X^2}$	
X	**Y**
-10	10.000
-1	1.000
-7	7.000
0	0.000
9	9.000

5)

Y=4×X-(X×-1)	
X	**Y**
-3	-15
-6	-30
-8	-40
1	5
8	40

6)

Y=4+X	
X	**Y**
-1	3
2	6
7	11
8	12
9	13

7)

$Y=\frac{X}{7}\times 6$	
X	**Y**
-10	-8.571
-1	-0.857
-2	-1.714
1	0.857
8	6.857

8)

$Y=-X^2$	
X	**Y**
-10	-100
-4	-16
-8	-64
6	-36
8	-64

9)

$Y=X^2+4$	
X	**Y**
-1	5
-2	8
-4	20
-7	53
3	13

10)

Y=-X+6	
X	**Y**
-10	16
-1	7
-6	12
-7	13
5	1

11)

$Y=3+\frac{X}{4}$	
X	**Y**
-2	2.500
-4	2
-5	1.750
-6	1.500
6	4.500

12)

$Y=\sqrt{X^2-3}$	
X	**Y**
-5	4.690
-6	5.745
10	9.849
2	1.000
4	3.606

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Identify Linear Functions (Table) Name: **Answer Key**

Determine if the table shown represents a linear function (yes) or not (no).

1) $Y=\sqrt{X}+4$

X	Y
10	7.162
1	5
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6	6.449
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2) $Y=-X$

X	Y
-1	1
-3	3
-6	6
7	-7
9	-9

3) $Y=6^{X}+8$

X	Y
-1	8.167
-2	8.028
-5	8.000
-6	2,100.000
8	1,679,624

4) $Y=\sqrt{X^2}$

X	Y
-10	10.000
-1	1.000
-7	7.000
0	0.000
9	9.000

5) $Y=4\times X-(X\times -1)$

X	Y
-3	-15
-6	-30
-8	-40
1	5
8	40

6) $Y=4+X$

X	Y
-1	3
2	6
7	11
8	12
9	13

7) $Y=\frac{X}{7}\times 6$

X	Y
-10	-8.571
-1	-0.857
-2	-1.714
1	0.857
8	6.857

8) $Y=-X^2$

X	Y
-10	-100
-4	-16
-8	-64
6	-36
8	-64

9) $Y=X^2+4$

X	Y
-1	5
-2	8
-4	20
-7	53
3	13

10) $Y=-X+6$

X	Y
-10	16
-1	7
-6	12
-7	13
5	1

11) $Y=3+\frac{X}{4}$

X	Y
-2	2.500
-4	2
-5	1.750
-6	1.500
6	4.500

12) $Y=\sqrt{X^2-3}$

X	Y
-5	4.690
-6	5.745
10	9.849
2	1.000
4	3.606

Answers

1. no
2. yes
3. no
4. no
5. yes
6. yes
7. yes
8. no
9. no
10. yes
11. yes
12. no

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								