Identify Linear Functions (Table)

Name:

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

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

X	Y
-1	1.000
-5	5.000
5	5.000
6	6.000
8	8.000

2) $Y = -X + 3$

X	Y
-4	7
-5	8
0	3
1	2
8	-5

3) $Y = \frac{X}{6} \times 9$

X	Y
-1	-1.500
-3	-4.500
2	3
5	7.500
7	10.500

4) $Y = X^2 - 3$

X	Y
-3	6
-5	22
-7	46
7	46
9	78

5) $Y = \sqrt{X^2 - 8}$

X	Y
-10	9.592
-6	5.292
10	9.592
3	1.000
4	2.828

6) $Y = -X$

X	Y
-2	2
-6	6
0	0
4	-4
8	-8

7) $Y = 7 + X$

X	Y
-3	4
-4	3
0	7
4	11
6	13

8) $Y = -X^2$

X	Y
-10	-100
-1	-1
-6	-36
5	-25
8	-64

9) $Y = X - 3$

X	Y
-10	-13
-5	-8
-8	-11
4	1
8	5

10) $Y = \sqrt{X \times 8}$

X	Y
1	2.828
4	5.656
5	6.324
6	6.928
9	8.485

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

X	Y
-10	9.899
-3	2.646
-6	5.831
10	9.899
3	2.646

12) $Y = -X - 3$

X	Y
-3	0
-5	2
5	-8
6	-9
9	-12

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).

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10	9.899
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12) $Y = -X - 3$

X	Y
-3	0
-5	2
5	-8
6	-9
9	-12

Answers

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

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