



Identify Linear Functions (Table)

Name: _____

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

Answers

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

X	Y
-1	1.000
-4	4.000
0	0.000
2	2.000
5	5.000

2) $Y = \sqrt{X \times 7}$

X	Y
1	2.645
3	4.582
4	5.291
5	5.916
6	6.480

3) $Y = X - 2$

X	Y
-10	-12
-3	-5
-5	-7
0	-2
9	7

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

X	Y
-1	1.000
-6	6.000
0	0.000
6	6.000
8	8.000

5) $Y = 7 \times X + 2^2$

X	Y
-4	-24
-6	-38
-8	-52
4	32
6	46

6) $Y = 3 - X$

X	Y
-1	4
-6	9
3	0
6	-3
7	-4

7) $Y = X^2 + 8$

X	Y
-4	24
-5	33
-6	44
-9	89
0	8

8) $Y = \sqrt{X^2 - 6}$

X	Y
-4	3.162
-5	4.359
10	9.695
7	6.557
8	7.616

9) $Y = \sqrt{X + 5}$

X	Y
-3	1.414
0	2.236
1	2.449
2	2.645
6	3.316

10) $Y = X / 9$

X	Y
-4	-0.444
-6	-0.667
2	0.222
5	0.556
7	0.778

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

X	Y
-5	4.123
-8	7.483
10	9.592
4	2.828
8	7.483

12) $Y = 5 \times X - (X + 3)$

X	Y
-5	-23
-9	-39
0	-3
4	13
7	25

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



Identify Linear Functions (Table)

Name: **Answer Key**

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

1)

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3)

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X	Y
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X	Y
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5)

$Y = 7 \times X + 2^2$	
X	Y
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6)

$Y = 3 - X$	
X	Y
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6	-3
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7)

$Y = X^2 + 8$	
X	Y
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-6	44
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8)

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12)

$Y = 5 \times X - (X + 3)$	
X	Y
-5	-23
-9	-39
0	-3
4	13
7	25

Answers

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