



Identify Linear Functions (Table)

Name: **Answer Key**

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

Answers

1) $Y=2+\frac{X}{4}$

X	Y
-2	1.500
-4	1
-6	0.500
-8	0
7	3.750

2) $Y=\frac{X}{5}$

X	Y
-2	-0.400
-7	-1.400
-9	-1.800
2	0.400
4	0.800

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

X	Y
-3	2.000
-9	8.718
3	2.000
8	7.681
9	8.718

4) $Y=3 \times X - (X+3)$

X	Y
-1	-5
-3	-9
-6	-15
-7	-17
3	3

5) $Y=-X \times 2$

X	Y
-1	2
-5	10
2	-4
4	-8
6	-12

6) $Y=\sqrt{X}+3$

X	Y
10	6.162
1	4
2	4.414
4	5
9	6

7) $Y=7+X$

X	Y
-8	-1
-9	-2
1	8
3	10
6	13

8) $Y=-X-2$

X	Y
-6	4
-7	5
-9	7
2	-4
8	-10

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

X	Y
-4	4.000
-5	5.000
5	5.000
7	7.000
8	8.000

10) $Y=-X^2$

X	Y
-3	-9
-4	-16
-7	-49
-9	-81
9	-81

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

X	Y
2	3.741
3	4.582
4	5.291
6	6.480
9	7.937

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

X	Y
-7	7.000
3	3.000
4	4.000
6	6.000
9	9.000

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