



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

Answers

1)  $Y = \sqrt{X} + 7$

| X | Y     |
|---|-------|
| 0 | 7     |
| 3 | 8.732 |
| 4 | 9     |
| 7 | 9.645 |
| 8 | 9.828 |

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

| X  | Y     |
|----|-------|
| -2 | 2.000 |
| -3 | 3.000 |
| -4 | 4.000 |
| -7 | 7.000 |
| 3  | 3.000 |

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

| X  | Y     |
|----|-------|
| -3 | 8.500 |
| -4 | 8.333 |
| -5 | 8.167 |
| 4  | 9.667 |
| 5  | 9.833 |

4)  $Y = -X^2$

| X  | Y   |
|----|-----|
| -6 | -36 |
| 0  | 0   |
| 1  | -1  |
| 5  | -25 |
| 7  | -49 |

5)  $Y = 6^X + 2$

| X  | Y     |
|----|-------|
| -6 | 0.002 |
| -7 | 0.000 |
| -8 | 0.000 |
| 1  | 8     |
| 4  | 1,298 |

6)  $Y = 4 + X$

| X  | Y  |
|----|----|
| -2 | 2  |
| -8 | -4 |
| 1  | 5  |
| 2  | 6  |
| 9  | 13 |

7)  $Y = -X$

| X  | Y  |
|----|----|
| -6 | 6  |
| -8 | 8  |
| 2  | -2 |
| 3  | -3 |
| 7  | -7 |

8)  $Y = \sqrt{X}$

| X  | Y     |
|----|-------|
| 0  | 0.000 |
| 10 | 3.162 |
| 2  | 1.414 |
| 7  | 2.645 |
| 8  | 2.828 |

9)  $Y = X^2$

| X | Y  |
|---|----|
| 3 | 9  |
| 4 | 16 |
| 6 | 36 |
| 7 | 49 |
| 8 | 64 |

10)  $Y = \frac{X}{3}$

| X  | Y      |
|----|--------|
| -3 | -1     |
| -5 | -1.667 |
| -6 | -2     |
| -8 | -2.667 |
| 1  | 0.333  |

11)  $Y = \sqrt{X \times 3}$

| X  | Y     |
|----|-------|
| 0  | 0.000 |
| 10 | 5.477 |
| 3  | 3.000 |
| 5  | 3.872 |
| 7  | 4.582 |

12)  $Y = 3 \times X - (X \times -1)$

| X   | Y   |
|-----|-----|
| -10 | -40 |
| -8  | -32 |
| -9  | -36 |
| 1   | 4   |
| 9   | 36  |

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



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| -8  | -32 |
| -9  | -36 |
| 1   | 4   |
| 9   | 36  |

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