



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

Answers

1)

| $Y = \frac{X}{5}$ |        |
|-------------------|--------|
| X                 | Y      |
| -1                | -0.200 |
| -2                | -0.400 |
| -5                | -1     |
| -7                | -1.400 |
| 5                 | 1      |

2)

| $Y = \sqrt{X} + 4$ |       |
|--------------------|-------|
| X                  | Y     |
| 0                  | 4     |
| 2                  | 5.414 |
| 3                  | 5.732 |
| 4                  | 6     |
| 8                  | 6.828 |

3)

| $Y = -X \times 2$ |     |
|-------------------|-----|
| X                 | Y   |
| -2                | 4   |
| 1                 | -2  |
| 7                 | -14 |
| 8                 | -16 |
| 9                 | -18 |

4)

| $Y = 3 \times X - (X + 8)$ |     |
|----------------------------|-----|
| X                          | Y   |
| -1                         | -10 |
| -2                         | -12 |
| -4                         | -16 |
| -5                         | -18 |
| -6                         | -20 |

5)

| $Y = 2 + X$ |    |
|-------------|----|
| X           | Y  |
| -7          | -5 |
| 2           | 4  |
| 3           | 5  |
| 6           | 8  |
| 8           | 10 |

6)

| $Y = \sqrt{X - 4}$ |       |
|--------------------|-------|
| X                  | Y     |
| 4                  | 0.000 |
| 5                  | 1.000 |
| 7                  | 1.732 |
| 8                  | 2.000 |
| 9                  | 2.236 |

7)

| $Y = \sqrt{X^2 - 9}$ |       |
|----------------------|-------|
| X                    | Y     |
| -6                   | 5.196 |
| -8                   | 7.416 |
| -9                   | 8.485 |
| 4                    | 2.646 |
| 6                    | 5.196 |

8)

| $Y = -X - 8$ |     |
|--------------|-----|
| X            | Y   |
| -1           | -7  |
| -3           | -5  |
| -7           | -1  |
| -9           | 1   |
| 8            | -16 |

9)

| $Y = X^2$ |    |
|-----------|----|
| X         | Y  |
| -5        | 25 |
| 1         | 1  |
| 2         | 4  |
| 3         | 9  |
| 8         | 64 |

10)

| $Y = \sqrt{X + 8}$ |       |
|--------------------|-------|
| X                  | Y     |
| -3                 | 2.236 |
| 10                 | 4.242 |
| 1                  | 3.000 |
| 2                  | 3.162 |
| 6                  | 3.741 |

11)

| $Y = 2^X + 9$ |       |
|---------------|-------|
| X             | Y     |
| -2            | 9.250 |
| -8            | 9.004 |
| 3             | 17    |
| 5             | 41    |
| 8             | 265   |

12)

| $Y = 3 + \frac{X}{9}$ |       |
|-----------------------|-------|
| X                     | Y     |
| -10                   | 1.889 |
| -4                    | 2.556 |
| 1                     | 3.111 |
| 4                     | 3.444 |
| 5                     | 3.556 |

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