



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

Answers

1)

| $Y = \sqrt{X+3}$ |       |
|------------------|-------|
| X                | Y     |
| -1               | 1.414 |
| -3               | 0.000 |
| 2                | 2.236 |
| 3                | 2.449 |
| 4                | 2.645 |

2)

| $Y = -X - 8$ |     |
|--------------|-----|
| X            | Y   |
| -10          | 2   |
| -6           | -2  |
| -7           | -1  |
| 2            | -10 |
| 9            | -17 |

3)

| $Y = \sqrt{X^2}$ |        |
|------------------|--------|
| X                | Y      |
| -10              | 10.000 |
| -4               | 4.000  |
| 4                | 4.000  |
| 7                | 7.000  |
| 8                | 8.000  |

4)

| $Y = -X$ |    |
|----------|----|
| X        | Y  |
| -10      | 10 |
| -1       | 1  |
| 6        | -6 |
| 7        | -7 |
| 9        | -9 |

5)

| $Y = 4 + X$ |    |
|-------------|----|
| X           | Y  |
| -6          | -2 |
| -8          | -4 |
| -9          | -5 |
| 1           | 5  |
| 6           | 10 |

6)

| $Y = 6 - X$ |    |
|-------------|----|
| X           | Y  |
| -10         | 16 |
| -3          | 9  |
| -4          | 10 |
| -8          | 14 |
| 6           | 0  |

7)

| $Y = X^2 + 9$ |    |
|---------------|----|
| X             | Y  |
| -3            | 18 |
| -7            | 58 |
| 1             | 10 |
| 4             | 25 |
| 7             | 58 |

8)

| $Y = X - 9$ |     |
|-------------|-----|
| X           | Y   |
| -3          | -12 |
| -7          | -16 |
| 3           | -6  |
| 4           | -5  |
| 9           | 0   |

9)

| $Y = X^2$ |     |
|-----------|-----|
| X         | Y   |
| -10       | 100 |
| -5        | 25  |
| -9        | 81  |
| 3         | 9   |
| 6         | 36  |

10)

| $Y = 9 \times X - (X + 5)$ |     |
|----------------------------|-----|
| X                          | Y   |
| -4                         | -37 |
| -7                         | -61 |
| -9                         | -77 |
| 0                          | -5  |
| 2                          | 11  |

11)

| $Y = \sqrt{8 \times X}$ |       |
|-------------------------|-------|
| X                       | Y     |
| 10                      | 8.944 |
| 3                       | 4.898 |
| 5                       | 6.324 |
| 6                       | 6.928 |
| 7                       | 7.483 |

12)

| $Y = X + 8$ |    |
|-------------|----|
| X           | Y  |
| -1          | 7  |
| -3          | 5  |
| -8          | 0  |
| 2           | 10 |
| 6           | 14 |

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



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|--------------|-----|
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3)

| $Y = \sqrt{X^2}$ |        |
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| -7                       | -61 |
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| -3          | 5  |
| -8          | 0  |
| 2           | 10 |
| 6           | 14 |

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