



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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| -9 | -36 |
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| 9 | 36 |

Answers1. **no**2. **no**3. **yes**4. **no**5. **no**6. **yes**7. **yes**8. **no**9. **no**10. **yes**11. **no**12. **yes**