



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

Answers

1) $Y = \sqrt{X-2}$

| X | Y |
|---|-------|
| 2 | 0.000 |
| 3 | 1.000 |
| 4 | 1.414 |
| 8 | 2.449 |
| 9 | 2.645 |

2) $Y = \frac{X}{7} \times 4$

| X | Y |
|----|--------|
| -3 | -1.714 |
| -4 | -2.286 |
| -8 | -4.571 |
| 1 | 0.571 |
| 6 | 3.429 |

3) $Y = 3 + X$

| X | Y |
|----|----|
| -4 | -1 |
| -6 | -3 |
| 3 | 6 |
| 4 | 7 |
| 6 | 9 |

4) $Y = -X - 5$

| X | Y |
|----|-----|
| -1 | -4 |
| -4 | -1 |
| -7 | 2 |
| 6 | -11 |
| 7 | -12 |

5) $Y = X - 2$

| X | Y |
|----|----|
| -4 | -6 |
| 1 | -1 |
| 2 | 0 |
| 7 | 5 |
| 8 | 6 |

6) $Y = 2 \times X - (X + 6)$

| X | Y |
|----|-----|
| -1 | -7 |
| -6 | -12 |
| -9 | -15 |
| 5 | -1 |
| 7 | 1 |

7) $Y = X^2 + 4$

| X | Y |
|-----|-----|
| -10 | 104 |
| -4 | 20 |
| -5 | 29 |
| -9 | 85 |
| 7 | 53 |

8) $Y = -X$

| X | Y |
|-----|----|
| -10 | 10 |
| -4 | 4 |
| 1 | -1 |
| 6 | -6 |
| 8 | -8 |

9) $Y = \sqrt{X^2 - 7}$

| X | Y |
|----|-------|
| -6 | 5.385 |
| -8 | 7.550 |
| -9 | 8.602 |
| 3 | 1.414 |
| 5 | 4.243 |

10) $Y = \sqrt{X}$

| X | Y |
|----|-------|
| 10 | 3.162 |
| 3 | 1.732 |
| 4 | 2.000 |
| 6 | 2.449 |
| 8 | 2.828 |

11) $Y = 6 \times X + 6^2$

| X | Y |
|-----|-----|
| -10 | -24 |
| -4 | 12 |
| 0 | 36 |
| 1 | 42 |
| 3 | 54 |

12) $Y = 2 - X$

| X | Y |
|-----|----|
| -10 | 12 |
| -1 | 3 |
| -4 | 6 |
| -9 | 11 |
| 2 | 0 |

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____



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| X | Y |
|----|-----|
| -1 | -4 |
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| 7 | -12 |

5) $Y = X - 2$

| X | Y |
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| 1 | -1 |
| 2 | 0 |
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6) $Y = 2 \times X - (X + 6)$

| X | Y |
|----|-----|
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| -9 | -15 |
| 5 | -1 |
| 7 | 1 |

7) $Y = X^2 + 4$

| X | Y |
|-----|-----|
| -10 | 104 |
| -4 | 20 |
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| -9 | 85 |
| 7 | 53 |

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| -10 | 12 |
| -1 | 3 |
| -4 | 6 |
| -9 | 11 |
| 2 | 0 |

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