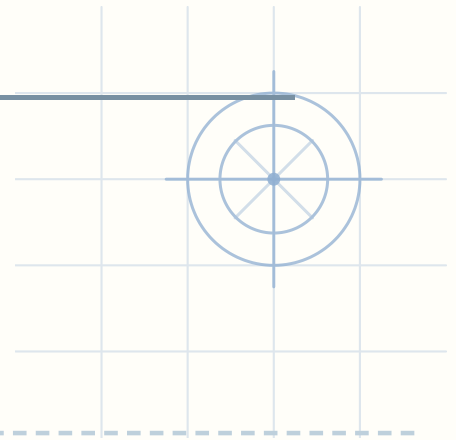


## Linear or nonlinear — From a table of values

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Could each table's points lie on a straight line? Circle one.



1

|   |     |     |     |     |
|---|-----|-----|-----|-----|
| x | 9   | 15  | 21  | 27  |
| y | 103 | 163 | 223 | 283 |

Linear / Nonlinear

2

|   |     |     |     |     |
|---|-----|-----|-----|-----|
| x | 5   | 9   | 13  | 17  |
| y | 105 | 165 | 225 | 285 |

Linear / Nonlinear

3

|   |    |     |     |     |
|---|----|-----|-----|-----|
| x | 3  | 7   | 11  | 15  |
| y | 63 | 111 | 159 | 207 |

Linear / Nonlinear

4

|   |    |    |    |     |
|---|----|----|----|-----|
| x | 3  | 6  | 9  | 12  |
| y | 13 | 40 | 85 | 148 |

Linear / Nonlinear

5

|   |    |    |     |     |
|---|----|----|-----|-----|
| x | 3  | 6  | 9   | 12  |
| y | 23 | 77 | 167 | 293 |

Linear / Nonlinear

6

|   |    |    |     |     |
|---|----|----|-----|-----|
| x | 3  | 6  | 9   | 12  |
| y | 22 | 76 | 166 | 292 |

Linear / Nonlinear



## Linear or nonlinear · From a table of values — Answer key

1. x: 9, 15, 21, 27 y: 103, 163, 223, 283: Linear — x goes up by 6 every time and y goes up by 60 every time

2. x: 5, 9, 13, 17 y: 105, 165, 225, 285: Linear — x goes up by 4 every time and y goes up by 60 every time

3. x: 3, 7, 11, 15 y: 63, 111, 159, 207: Linear — x goes up by 4 every time and y goes up by 48 every time

4. x: 3, 6, 9, 12 y: 13, 40, 85, 148: Nonlinear — x goes up by 3 every time, but the steps in y are 27, 45, 63 — they change, so the points do not lie on a line

5. x: 3, 6, 9, 12 y: 23, 77, 167, 293: Nonlinear — x goes up by 3 every time, but the steps in y are 54, 90, 126 — they change, so the points do not lie on a line

6. x: 3, 6, 9, 12 y: 22, 76, 166, 292: Nonlinear — x goes up by 3 every time, but the steps in y are 54, 90, 126 — they change, so the points do not lie on a line