**For all problems do three things: 1) draw the next step 2) find the value of the 50th term 3) find an equation which describes the pattern.**

1)

2) 1. 2. 3.

3)

**Create an equation which represents each table of values.**

4)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 0 | 1 | 2 | 3 |
| y | 0 | 4 | 8 | 12 |

5)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 0 | 1 | 2 | 3 |
| y | 5 | 9 | 13 | 17 |

6)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | 0 | 1 | 2 | 3 |
| Y | 15 | 12 | 9 | 6 |

7)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 0 | 1 | 2 | 3 |
| y | 30 | 34 | 38 | 42 |

8)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| X | 0 | 1 | 2 | 3 |
| Y | -8 | -12 | -16 | -20 |

9)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 0 | 1 | 2 | 3 |
| y | 11 | 21 | 31 | 41 |

Be careful with these next ones!

10)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 1 | 2 | 3 | 4 |
| y | 7 | 6 | 5 | 4 |

11)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 1 | 2 | 3 | 4 |
| y | 17 | 19 | 21 | 23 |

12)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| x | 1 | 2 | 3 | 4 |
| y | 20 | 25 | 30 | 35 |