NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_\_ Score:\_\_\_\_\_\_\_\_/\_\_\_\_\_\_\_=\_\_\_\_\_\_\_\_\_%=\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| **Sec 1**  | **HW 3-3****Arithmetic Sequences** | **Unit 3** |

**Instructions:**

a) Find the next three terms of the sequence. b) Write a recursive equation using **function notation.**

1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 1 | 2 | 3 | 4 | 5 | 6 | **Recursive** |
| **Value** | -6 | -3 | 0 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | -3 | -2 | -1 | 0 | 1 | 2 | **Recursive** |
| **Value** | 7 | 13 | 19 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 1 | 2 | 3 | 4 | 5 | 6 | **Recursive** |
| **Value** | -8.2 | -10.5 | -12.8 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 3 | 4 | 5 | 6 | 7 | 8 | **Recursive** |
| **Value** | -1 | -8 | -15 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 1 | 2 | 3 | 4 | 5 | 6 | **Recursive** |
| **Value** | -2 | -1.5 | -1 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **Recursive** |
| **Value** | 48 | 36 | 24 | 12 |  |  |  |  |

1.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Term** | 1 | 2 | 3 | 4 | 5 | 6 | 7 | **Recursive** |
| **Value** | -7 | -4 | -1 | 2 |  |  |  |  |

1. 

1. 

1. 

**Draw the next step of the pattern and then write a recursive equation to explain the pattern.**

1. **** Behavior:
2. **** Behavior:

**Review Section:**

Simplify each expression.

1. ****
2. ****
3. ****
4. ****
5. ****
6. ****
7. ****
8. ****
9. ****
10. ****
11. ****
12. ****
13. ****
14. ****