**Chapter 4 Review Sheet**

**Name:**  **Date:**

1). Find the first 4 terms of the following sequence. (4 points)

 $f\left(n\right)=2\left(x\right)+4$

2). Find the first 4 terms of the following sequence. (4 points)

 $f\left(n\right)=5\left(x^{2}\right)-7$

3). Find the first 4 terms of the following sequence. (4 points)

$$f\left(n\right)=\frac{1}{2}\left(x\right)+3$$

4). Find the first 6 terms of the following sequence. (6 points)

$$f\left(1\right)=32, f\left(n\right)=f\left(n-1\right)+6$$

5). Find the first 6 terms of the following sequence. (6 points)

$$f\left(1\right)=100, f\left(n\right)=f\left(n-1\right)-12$$

6). Find the first 6 terms of the following sequence. (6 points)

$$f\left(1\right)=0, f\left(n\right)=f\left(n-1\right)+17$$

Find the 20th term of the following sequences. (2 points)

7). $ f\left(1\right)=35, f\left(n\right)=f\left(n-1\right)+5$

8). $f\left(n\right)=2\left(x\right)+7$

Find what position the given number is in each sequence. (2 points)

9). $ f\left(1\right)=27, f\left(n\right)=f\left(n-1\right)+3; 69$

10). $f\left(n\right)=2\left(x\right)+7$ ; 77

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| F | 1 | 2 | 3 | 4 | 5 |
| F(n)  | 12 | 24 | 36 | 48 | 60 |

For 11-12, Create an equation for the following situations and solve the question (6 points).

  **General Recursive Rule** **General Explicit Rule**

Use the General Explicit Rule to find f(24)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| F | 1 | 2 | 3 | 4 | 5 |
| F(n)  | 7 | 18 | 29 | 40 | 51 |

 **General Recursive Rule** **General Explicit Rule**

Use the General Explicit Rule to find f(11)

Solve the following equation for problems 13-15. (3 Points)

13). $3x+5=38$ 14). $\frac{1}{2}\left(x\right)-5=25$

15). $2x-0.5=25.5$