1.(1 pt) Write down the first five terms of the sequence $\left\{\frac{2n}{n+11}\right\}$

_____ , _____ , _____ , _____ , _____ ,

2.(1 pt) Find the 12^{th} term of the arithmetic sequence $-6, -11, -16, ...$

Answer: _____

3.(1 pt) Find the sum $-6-3+0+...+(-9+3n)$

Answer: _____

4.(1 pt) Find the sum $3+1-1+...-15$

Answer: _____

5.(1 pt) Find the common difference and write out the first four terms of the arithmetic sequence $\left\{\frac{1}{2}n-\frac{4}{5}\right\}$

Common difference is _____

$a_1 =$____ , $a_2 =$____ , $a_3 =$____ , $a_4 =$____ ,

6.(1 pt) Find the nth term of the arithmetic sequence whose initial term is 1 and common difference is 4.

_____ (Your answer must be a function of n.)

7.(1 pt) Find the first term and the common difference of the arithmetic sequence whose 9th term is 37 and 12th term is 49.

First term is _____ ,
Common difference is _____

8.(1 pt) Find x such that $-8x+1$, $5x+1$, and $10x-79$ are consecutive terms of an arithmetic sequence.

$x =$_____

9.(1 pt) Write down the first five terms of the following recursively defined sequence.

$$a_1 = 4;\ a_{n+1} = -2a_n - 5$$

_____ , _____ , _____ , _____ , _____