

Name: _____

Worksheet ID: 1

Sequences and Exponential Functions Practice Test

1) Write the explicit formula for the sequence:

$-51, -61, -71, -81 \dots$

2) Write the explicit formula for the sequence:

$-24, -7, 10, 27 \dots$

Key:

1) $a_n = -10n - 41$

2) $a_n = 17n - 41$

3) -60

4) 328

5) $a_n = -4(4)^{n-1}$

6) $a_n = -6(10)^{n-1}$

7) -345191655699

8) -121060821

9) $-93, -106, -119, -132 \dots$

10) $-95, -111, -127, -143 \dots$

11) $-12, -84, -588, -4116 \dots$

12) $13, 156, 1872, 22464 \dots$

13) $6892(1.04)^{18}$

14) $4091(1.03)^{13}$

15) $1949(0.90)^{18}$

16) $8765(0.88)^9$

17) $575(2)^8$

18) $480(2)^8$

19) $705\left(\frac{1}{2}\right)^3$

20) $751\left(\frac{1}{2}\right)^6$

21) $624(1.0218)^8$

22) $906(1.0915)^{16}$