Bellwork Alg 2 Wednesday, August 28, 2019

Find the 10th term in each sequence.

1. 11,17,23,29,...

2. 2, 6, 18, 54, ...

3. A line passes through these three points: (-1,-4) (1,2) (2,5) Write the equation of this line in Slope-Intercept Form (y = mx + b).

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$$t_n = 11 + 6(n-1)$$
 $n = term #$ 

any term (nth term)

$$L_{n}=2.3^{n-1}$$

$$t_{10} = 2.3^{10-1}$$
 $= 2.3^{9}$ 

3. A line passes through these three points: (-1,-4) (1,2)Write the equation of this line in Slope-Intercept Form (y = mx + b).

20 soleme nethods

$$(-1,-4)$$
  $(1,2)$   $\Rightarrow m = \frac{2--4}{1--1} = \frac{6}{2} = 3$ 

Find y-int using the slope and one of

the points: 
$$M=3$$
 (1,2)

$$M=3$$
  $(1/2)$ 

$$Y = mx + b$$

$$2 = 3 \times + 6$$

$$2 = 3 + b$$

$$y = 3x - 1$$