Bellwork Alg 2B 6th hr Tuesday, December 19, 2017 Use the given formula to find the 4th, 5th, and 6th terms of each sequence.

1. 
$$a_n = 2(n+1)^2 - 3$$

2. 
$$a_1 = 10$$

$$a_n = 3(a_{n-1} - 4) + 2$$

Write a recursive formula for each sequence.

Write an explicit formula for each sequence.

## Bellwork HUSSZUB

(1) 
$$a_n = 2(n+1)^2 - 3$$
  
 $a_1 = 2(4+1)^2 - 3 = 47$   
 $a_2 = 2(5+1)^2 - 3 = 69$   
 $a_4 = 2(6+1)^2 - 3 = 95$ 

$$a_1 = 24$$
 $a_1 = (a_{n-1})(1.5)$ 

(2) 
$$a_1 = 10$$
  
 $a_2 = 3(10 - 4) + 2 = 20$   
 $a_3 = 3(20 - 4) + 2 = 50$   
 $a_4 = 3(50 - 4) + 2 = 140$   
 $a_5 = 3(140 - 4) + 2 = 410$   
 $a_6 = 3(410 - 4) + 2 = 1222$ 

$$a_1 = -12$$
 $a_1 = (a_{n-1}) - 4$