

# Day 1 HW:

1)  $d=1$        $a_n = a_{n-1} + 1$

2)  $r=2$        $a_n = 2 \cdot a_{n-1}$

3)  $r = \frac{1}{8}$        $a_n = \frac{1}{8} \cdot a_{n-1}$

4)  $d=-3$        $a_n = a_{n-1} - 3$

5)  $a_n = 2(a_{n-1} - 2)$        $a_1 = 3$

3, 2, 0, -4

6)  $a_n = \frac{a_{n-1}}{2}$        $a_1 = -8$

-8, -4, -2, -1

7)  $a_n = 2 \cdot a_{n-1} + 1$        $a_1 = 1$

1, 3, 7, 15

8)  $a_n = a_{n-1} - 5$        $a_1 = 1$

1, -4, -9, -14

9)  $a_n = 3a_{n-1}$        $a_1 = 1$

1, 3, 9, 27

10)  $a_n = -2(a_{n-1} + 3)$        $a_1 = 1$

1, -8, 10, -26