

California State University Sacramento - Math 101

Homework Assignment 11

- 1) Problem 1 on page 270
- 2) Problem 2 on page 270
- 3) Problem 3 on page 270
- 4) Problem 4 on page 270
- 5) Problem 5 on page 270

270***Exercise 6*****Exercise 6****1. Solve**

$$a_n = 3a_{n-1} - 2a_{n-2},$$

given that $a_0 = 2$ and $a_1 = 3$.

2. Solve

$$a_n - 6a_{n-1} + 9a_{n-2} = 0,$$

given that $a_0 = 2$ and $a_1 = 3$.

3. Solve

$$a_n = \frac{1}{2}(a_{n-1} + a_{n-2}),$$

given that $a_0 = 0$ and $a_1 = 1$.

4. Solve

$$a_n - 4a_{n-1} + 4a_{n-2} = 0,$$

given that $a_0 = -\frac{1}{4}$ and $a_1 = 1$.

5. Solve

$$2a_n = a_{n-1} + 2a_{n-2} - a_{n-3},$$

given that $a_0 = 0$, $a_1 = 1$ and $a_2 = 2$.