

Disco II - Quiz/Worksheet 14

Name: _____

Box # _____

1. Solving Equations

1. Solve

$$a_{n+2} - a_{n+1} - 2a_n = 7 \cdot 3^n, a_0 = 1, a_1 = 2$$

by any method.

2. Now solve

$$a_{n+2} - a_{n+1} - 2a_n = 7 \cdot 2^n, \quad a_0 = 1, a_1 = 2,$$

Note that the particular solution will not have the pure exponential form 2^n , try $n2^n$ instead.