MATH 428 HW4

Solve the difference equation

\[ a_{n+1} - 5a_n + 6a_{n-1} = 3 \]

given that \( a_0 = -4 \) and \( a_1 = 11 \).

Find series solution of

\[ (x^2 - 4)y'' + 3xy' + y = 0 \]

about the point \( x_0 = 0 \).