1. Q — Rewrite the Fibonacci equation using a polynomial of the advance operator, as in (9.3.1). What is p(A)? What is g? In the sentence under the expression (9.3.1), the text says "g is a fixed vector (function) from V", but they never define V. So what is this V?

A — The linear recurrence equation of the Fibonacci sequence is:

$$F(n+2) = F(n+1) + F(n)$$

or 
$$F(n+2) - F(n+1) - F(n) = 0$$

The above can be represented with the polynomial p(A) of the advancement operator:

$$(A^2 - A - 1)f(n) = 0$$

hence 
$$p(A) = A^2 - A - 1$$
 and  $g = 0$ 

What is V??