

- (g) Suppose that $B = 0$ and that the only initial condition is $r_0 = E$. Fill in the missing part of the following algorithm to compute r_n recursively.

Algorithm DE
Input $A, C, D, E, n \quad n \geq 0$

RECDIFF
 display R

Output R

Algorithm RECDIFF
Input None

if $n = 0$
 then
 $E \rightarrow R$
 else

} (Missing part)

endif

Output none

[6]