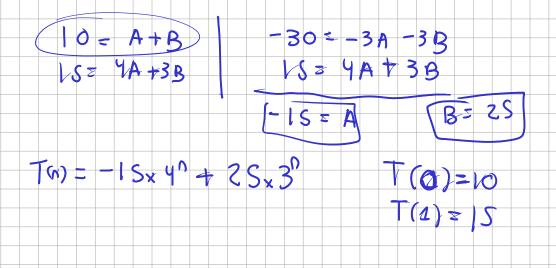


```
RR Homograms
                                                                                       T(n)= (2 T(n-1)+ (2 T(n-2) + (3 T (n-3) + ...+ (7 T(n-k)
                                     T(n) = Y ) h-1-h+K
                                                                                                                                                                                                                                                                                                                                                                                                   Y^¥0
                                                                  Yn= (1 Yn-x) + (2 Yn-x) + (1 Yn-x) + (1 Yn-x)
                                                                           Y K = C1 Y K -1 + C2 Y + ---+ CK
                                                                                         VK = C1 x x-1 - C2 x x-2 - - Ck = 0 }
                                                                                Roices (dutinted)
                                                                                                                 T(n)= A(14) + B(1/2) + --- + K(1/1)
                                                                           T(n)=7T(n-2)-12T(n-2)
                                                                                                                                                                                                                                                                                                                                                                                                   T(0) = 10
                                                                                                                                                                                                                                                                                                                                                                                                       T(2) = 15
       \frac{1}{2} = \frac{1}{2} \times \frac{1}
                                                                                     Y2=71-12-71-71-12=0
  Y = -6 \pm \sqrt{6^2 - 490} 0 \times 2^2 + 6 \times + 0 = 0
```



Sea una RR homogenea cuya EC tiene raices repetidas con multiplicidad m, la solución se plantea multiplicando un polinomo de grado m-1 a cada raiz de multiplicidad m

Ejemplo

$$(2n^{2} + 3n^{2} + (n^{2} + 0n^{2} + 6n^{2} + 1n^{2} + 6n^{2} + 1n^{2} + 6n^{2} + 1n^{2} + 6n^{2} + 1n^{2} + 6n^{2} +$$

$$T(n) = -41(n-1) - 41(n-5)$$

• $T(a) = -10$

• $T(a) = -10$

• $T(a) = -10$

$$T(n) = (An + B)(-2)^{n}$$

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$$-10 = (A(1) + B)(-2)^{2}$$

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$$T(n) = (-5n + 10)(-2)$$

