1	1 1 1 1	
~ \	4x2+12x	T Q
1	4x-+12x	TO

$$\frac{-72 \pm \sqrt{12^2 - 4(4)(8)}}{2(4)} = \frac{-72 \pm \sqrt{144 - 128}}{8}$$

$$\frac{-72 \pm 4}{8} = v_1 = -1$$
  $v_2 = -2$ 

$$\alpha_0 = k_1 r_1^0 + k_2 r_2^0$$

$$\alpha_{1500} = -9.(-1)^{1500} + 2.(-2)^{1500}$$

$$5 = -k_1 - 2k_2$$
 (-1)

$$(2=k_2)$$

$$9 = -k_1 - 2$$
 $9 = -K_1 \Rightarrow k_1 = -9$ 

$$n = 4$$
  $m = 4$ 

$$m^{n} = 4^{4} \rightarrow 256$$