1)
$$A_{k}(t) = 3t^{2} + 2t + 800$$
 $\bar{t}_{n} \neq n \geq 17$

$$\frac{\hat{l}_{n} = \frac{A_{k}(n) - A_{k}(n-1)}{A_{k}(n-1)} = \frac{3n^{2} + 2n + 800 - 3(n-1)^{2} + 2(n-1) + 800}{3(n-1)^{2} + 2(n-1) + 800}$$

$$= \frac{6n-1}{(n-1)(3n-1) + 800} ; n \ge 1$$

$$\frac{i_{n+1}-i_n=\frac{6(n+1)-1}{n(3n+2)+800}-\frac{6n-1}{(n-1)(3n-1)+800}$$

$$= 18n^{2} - 12n + 480S$$

$$(n(3n+2) + 800) (n-1)(3n-1) + 600$$

$$0.5 \times 12 = 6\%$$
 $i = 0.06$

$$3 $32168$$

$$L = 6.2 \times$$

$$5 th^{6} 7 8 9 10 11 12 13 14 15 16 17 18}$$

$$|C(1+i)^{t} = 32168$$

$$\frac{13}{(1.062)^{13}} = \frac{32168}{(1.062)^{13}}$$

$$(9)$$
 $i_{[2,4.5]} = 202.$ $0_{[3]}^{2}$

$$\alpha(t) = (1+i)^{t}$$

$$0, 2 = i \left[2,4.5\right] = \frac{\alpha(4.5) - \alpha(2)}{\alpha(2)} = \frac{\alpha(4.5)}{\alpha(2)} - 1$$

$$= (1+i)^{2.5}$$

$$= (1+i)^{2.5}$$

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$$= (1+i)^{2.5}$$

$$\frac{d_{(1,3)}}{d_{(1,3)}} = \frac{a(3)-a(1)}{a(3)} = 1 - \frac{a(1)}{a(3)}$$

$$= 1 - \frac{a(3)}{a(3)}$$

$$= 1 - \frac{a(1)}{a(3)}$$

$$\frac{1}{1+i(1)^{3}} = 1 - \frac{1}{1+i(1)^{3}}$$

$$= 1 - \frac{1}{1+i(2)^{3}}$$

$$= 0.13572$$