

اصول به نامه دینی و نسل موجودیها - پاسخ تدریس های فصل چهارم - علی صباغ ، عابد بایهاد

$$\frac{1}{4} Q + B = \frac{D}{n}$$

۱- الف)

$B = 0$

$$\frac{1}{n} = \frac{Q}{D} \Rightarrow n = \frac{D}{Q} \Rightarrow Q = \frac{D}{n}$$

ب)

$$\frac{1}{4} Q + B = \frac{D}{n}$$

$B \neq 0$

۲- الف)

$$\frac{\text{میانلین موجودی}}{\text{زمان}} = \frac{(10 \times \frac{1}{4}) + (20 \times 1) + (50 \times 1) + (50 \times \frac{1}{4}) + (10 \times \frac{1}{4})}{4}$$

$$= \frac{220}{4} = 55$$

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$$\frac{\text{میانلین موجودی}}{\text{زمان}} = \frac{(50 \times 1) + (50 \times \frac{1}{4})}{4} = \frac{75}{4} = 18.75$$



$$\frac{\text{میانلین موجودی}}{\text{زمان}} = \frac{(200 \times 1) + (200 \times 1) + (200 \times 1)}{4} = \frac{600}{4} = 150$$

$$\frac{\text{میانلین موجودی}}{\text{زمان}} = \frac{100 \times 1}{4} = 25$$

ج) چنانچه مانده زمانی که لایه چند دفعه افزایش داد و میانلین موجودی تمام معروها را باهم جمع کنیم  
به عبارت دو دفعه بیان صراحتیم که در کم سان دهی این مطلبی باشد،  
★ میانلین موجودی دو دفعه بیان دو دفعه و فناصل زمانی دریافت نسلی ندارد.

د) درسیات دریافت تدریجی، معرف تدریجی باسطه ممکن روی برقرار راست،

$$\frac{1}{4} Q \times (1 - \frac{D}{P}) + B = \text{میانلین موجودی}$$

۳- دریافت از ارائه تدریجی است.

$$D = \frac{40000}{1000} = 8 \quad C = 1000$$

$$EOQ = Q^* = \sqrt{\frac{2 \times C \times D}{h}} = \sqrt{204} = 14$$

۴- الف)

$$h = 0.2 \times 1000 = 200 \quad U = 1000$$

$$i = 20\%$$

$$THC = h \times \frac{Q}{P} + hB^0 = 200 \times 8 = 1600 = TOC$$

$$TIC = THC + TOC = 1000$$

$$D = \$10000 \text{ ( واحد )}$$

$$C = \omega_{000}$$

$$h = P_0 \times 1\% = \omega_{00}$$

$$EOQ = Q^* = \sqrt{\frac{P \cdot C \cdot D}{h}} = \sqrt{\frac{P \times 10000 \times \omega_{000}}{\omega_{00}}} = 914.8 \approx 914$$

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$$TIC = \omega_{000} \times \frac{P_{000}}{914} + \omega_{00} \times \frac{914}{P} = 19090$$

$$D = \frac{90000}{\omega_{000}} = P_0$$

$$EOQ = Q^* = \sqrt{\frac{P \times P_0 \times \omega_{000}}{100}} = 88.89 \approx 89$$

$$C = P_{000} \quad h = 100$$

$$TIC = P_{000} \times \frac{P_0}{\omega_{00}} + 100 \times \frac{\omega_{00}}{P} = 8890$$

$$D = \omega_{000}$$

$$C = \omega_{0000}$$

$$h = \omega_{00} \times P_{000} \times 1\% = \omega_{000}$$

$$TIC = \omega_{0000} \times \frac{\omega_{000}}{P_0} + \omega_{000} \times \frac{P_0}{P} = 19090$$

$$D = 10000 \quad P = \omega_{000}$$

$$C = P_0$$

$$\Rightarrow \frac{D}{P} = 0.1$$

$$h = \frac{P_0}{P_0} = 4.44 \approx 4.5$$

$$\Rightarrow EOQ = Q^* = \sqrt{\frac{P \times P_0 \times \omega_{000}}{4.5 \times (1 - 0.1)}} = 494.4 \approx 494$$

$$TIC = P_0 \times \frac{\omega_{000}}{4.944} + 4.5 \times \frac{P_0}{P} \times (1 - \frac{\omega_{000}}{\omega_{000}})$$

$$\Rightarrow TIC = 14890$$

$$D = P_{000000}$$

$$C = 14000$$

$$h = 100 \quad S = \omega_{00}$$

$$EOQ = Q^* = \sqrt{\frac{P \times C \times D}{h} \times \frac{h+S}{S}} = \sqrt{\frac{P \times 14000 \times P_{000000} \times (140 + 100)}{100 \times \omega_{00}}}$$

$$= 10440 \approx 10440 \quad \Rightarrow q^* = \frac{Q^* \cdot S}{h+S} = 48000$$

$$TIC = 14000 \times \frac{P_{000000}}{10440} + 100 \times \frac{(48000)}{P_0} + 100 \times \frac{(10440 - 48000)}{P_0} = 14890$$

$$h = 100000 \times 100 = 1000000$$

$$EOQ = Q^* = \sqrt{\frac{P \times C \times D}{h} \times \frac{h+S}{S}} = \sqrt{\frac{P \times 1000000 \times 100}{1000000 \times (1 - \frac{100}{P_0})}} = 144.44$$

$$C = 4100000 \quad D = \omega_{00} \times P_0 = 100$$

$$P = P_0 \times 1\% = \omega_{00}$$

$$h = \omega_{00} \times P_0 = 1000000$$

$$C = (4100000 \times 1\%) + (1000000 \times 1\%) + (1000000 \times 1\%) + 1000000 = 1110000$$

$$D = \omega_{000}$$

$$E_0 Q = Q^* = \sqrt{\frac{Y \times 111,000 \times \omega_{000}}{\omega_{00} \times Y_D}} = 182$$

$\text{عواید میانگین سطحی} s_n = \frac{D}{Q^*} = \frac{5000}{182} \approx 27$   $\text{تکمیلی} t = \frac{Q^*}{D} \times 4\gamma_D = 1 \Rightarrow$

$$Q_1 = 18000 = \sqrt{\frac{Y.C.D}{h}}$$

$$\frac{D}{P} = \frac{1}{\varepsilon} \quad , \quad Q_r = \sqrt{\frac{Y.C.D}{h(1-\frac{D}{P})}}$$

$$\left. \begin{aligned} \Rightarrow Q_r &= Q_1 \times \sqrt{\frac{1}{1-\frac{D}{P}}} = Q_1 \times \frac{1}{\sqrt{\varepsilon}} = 18000 \end{aligned} \right\}$$

$$Q^* = 18000 \quad Q_r^* = Q_1^* \times \sqrt{\frac{h+s}{s}} = 18000 \times \sqrt{\frac{18000}{18000}} = 18000 \times \sqrt{\frac{1}{s}} = 18000$$

$$s = 18000$$

$$h = 40000$$

$$Q_1^* = \sqrt{\frac{Y.C.D}{h(1-\frac{D}{P})}} = 1800 \quad \Rightarrow Q_1^* = Q^* \times \sqrt{\varepsilon} \Rightarrow Q^* = 400$$

$$\Rightarrow Q_r^* = Q_1^*$$

$$\frac{D}{P} = \frac{1}{\varepsilon} \quad Q_r^* = \sqrt{\frac{Y.C.D}{h}} \times \sqrt{\frac{h+s}{s}} = Q^* \times \sqrt{\frac{\varepsilon s}{s}} = Q^* \times \sqrt{\varepsilon} = 1800$$

$$h = 18000$$

$$D = \varepsilon_0 \quad h = 18000 \quad E_0 Q = Q^* = \sqrt{\frac{Y.C.D}{h(1-\frac{D}{P})}} = \sqrt{\frac{Y \times 100 \times \varepsilon_0}{18000 \times (1-\frac{1}{\varepsilon})}} = 144,44$$

$$P = 100 \quad \alpha = 10\varepsilon$$

$$C = 100 \quad B_1 = \alpha \pm \sqrt{\alpha^2 - 1} = 10\varepsilon \pm \sqrt{10000\varepsilon^2 - 1} \quad \left\{ \begin{array}{l} B_1 = 14424 \\ B_2 = -14424 \end{array} \right.$$

$$Q_1 = Q^* \times B_1 = 144,44 \times 14424$$

$$TIC_{Q_1} = C \times \frac{D}{Q_1} + h \times \frac{Q_1}{Y} (1 - \frac{D}{P}) = 100 \times \frac{\varepsilon_0}{144,44} + 10 \times \frac{144,44}{Y} (1 - \frac{1}{\varepsilon}) \approx 24$$

$$TIC_{Q_r} = C \times \frac{D}{Q_r} + h \times \frac{Q_r}{Y} (1 - \frac{D}{P}) = 100 \times \frac{\varepsilon_0}{18000} + 10 \times \frac{18000}{Y} (1 - \frac{1}{\varepsilon}) \approx 24$$

$$\Rightarrow TIC_{Q_1} = TIC_{Q_r}$$

$$TIC_{Q^*} = C \times \frac{D}{Q^*} + h \times \frac{Q^*}{\tau} \times (1 - \frac{D}{P}) = 100 \times \frac{\$}{\$} + 1 \times \frac{10000 \times (1 - \frac{1}{10})}{\$} = \$100$$

$$TIC_{Q^*} = \frac{TIC_1}{\alpha} = \frac{\$100}{10} = \$10, \approx \$10, \text{ true}$$

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$$TOC = \$10000$$

$$TOC = C \times \frac{D}{Q} \Rightarrow D = 4Q$$

well - II

$$\frac{D}{P} = 1/10$$

$$C = \$10000$$

$$B = \$1000$$

$$h = \$1$$

$$Q^* = \sqrt{\frac{2 \times h \times Q \times C}{h \times (1 - \frac{D}{P})}} \Rightarrow Q^* = \frac{\$10000}{\$1} = 10000$$

$$TIC = TOC + THC = C \times \frac{D}{Q} + h \times \frac{Q}{\tau} \times (1 - \frac{D}{P}) + h \cdot B \Rightarrow$$

$$TIC = \$10000 \times 4 + \$1 \times \frac{10000}{\tau} \times (1 - 1/10) + \$1000 \times \$1 = \$10000$$

$$TIC = \$10000$$

$$\text{if } Q = Q^* \Rightarrow TOC = THC, TIC = \$10000 + h \cdot B \text{ well - II}$$

$$B = \$1000$$

$$P = 10 \frac{\text{per unit}}{\text{year}} = 10 \times \$10 = \$1000 \frac{\text{per year}}{\text{per year}} \Rightarrow TIC = \$10000 + h \cdot B \Rightarrow THC = \frac{10000}{4} = \$2500$$

$$P = \$2500 \quad h = \$1$$

$$\Rightarrow THC = h \times \frac{Q}{\tau} \times (1 - \frac{D}{P}) \Rightarrow Q(1 - 1/10) = \$2500$$

$$\Rightarrow Q^* = \$10000$$

$$TOC = C \times \frac{D}{Q} = \$2500 \Rightarrow C \times \frac{\$2500}{\$10000} = \$2500 \Rightarrow C = \frac{\$10000 \times \$2500}{\$2500} = \$10000$$

$$h = \$1$$

$$Q_1 = \$10000$$

$$Q_1 = \sqrt{\frac{2 \times C \times D}{h}} = \sqrt{\frac{2 \times \$10000 \times \$10000}{\$1}} = \sqrt{200000000} = \$4472 \approx \$4500 \text{ - II}$$

$$\frac{D}{P} = 1/10$$

$$Q_2 = \sqrt{\frac{2 \times C \times D}{h}} \times \sqrt{\frac{1}{(1 - \frac{D}{P})}} = \sqrt{\frac{2 \times \$10000 \times \$10000}{\$1}} \times \sqrt{\frac{1}{(1 - 1/10)}} = \sqrt{200000000} \times \sqrt{10/9} = \$4500$$

$$Q_2 = ?$$

$$C = \$1000000 \quad S = \$2500 \quad P = \$10000$$

$$h = \$100 \quad D = \$1000$$

$$\alpha = 10$$

$$Q^* = \sqrt{\frac{2 \times C \times D \times (h+S)}{h \times (1 - \frac{D}{P}) \times S}}$$

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$$Q^* = \sqrt{\frac{V \times V_{0,000} \times V_{0,00} \times (V_{\Delta,0})}{1,0 \times V_{\Delta,0} \times V_{\Delta}}} = 1,000,000 \text{ A}$$

$$B = \alpha \pm \sqrt{\alpha^2 - 1} = 1,0 \pm \sqrt{(1,0)^2 - 1} \Rightarrow \begin{cases} B_1 = 1,0 \\ B_2 = -1,0 \end{cases}$$

$$Q_1 = Q^* \cdot B_1 = 1,000,000 \text{ A}$$

$$Q_2 = Q^* \cdot B_2 = -1,000,000 \text{ A}$$



$$\frac{h}{S} = 1,000,000$$

$$C_V = 1,000,000$$

$$Q_1 = 1,000,000$$

$$Q_1 = \sqrt{\frac{V \cdot C_{V,D}}{h} \cdot \sqrt{\frac{h+S}{S}}} = Q^* \cdot \sqrt{\frac{h+S}{S}} \Rightarrow Q = \frac{1,000,000}{\sqrt{1,01}} = 995,000 \text{ A}$$

$$\frac{D}{P} = \frac{1}{10}$$

$$Q_V = ?$$

$$Q_V = \sqrt{\frac{V \cdot C_V \cdot D}{h(1-\frac{D}{P})}} = \sqrt{V} \cdot Q^* \cdot \sqrt{\frac{1}{1-\frac{D}{P}}} = Q^* \cdot \sqrt{\frac{1}{1-\frac{1}{10}}} = \sqrt{10} \times Q^*$$

$$\Rightarrow Q_V = 995,000 \times \sqrt{10} = 1,000,000 \text{ A}$$

$$\Pi C^* = \sqrt{V \cdot C \cdot D \cdot h \cdot (1 - \frac{D}{P})} + h \cdot B$$

$$D = 1,000,000$$

$$i = 1,000,000 \times 10\%$$

$$U = 1,000,000$$

$$P = 1,000,000 \times 10\% = 100,000 \text{ A}$$

$$B = 1,000,000$$

$$\Pi C^* = 1,000,000$$

$$h = i \cdot U = 10\% \times 1,000,000 = 100,000$$

$$\Rightarrow \Pi C = 1,000,000 + 100,000 = 1,100,000$$

$$\Rightarrow Q = \sqrt{\frac{1,000,000 \times 1,000,000}{1,000,000 \times (1 - \frac{1}{10})}} = 1,000,000 \text{ A}$$

$$Q_1 = \frac{Q^*}{10} = \frac{1,000,000}{10} = 100,000 \text{ A}$$

$$\frac{\Pi C Q^*}{\Pi C Q_1} = ?$$

$$\Pi C_{Q_1} = 1,000,000 \times \frac{1,000,000}{1,000,000} + 100,000 \times \frac{1,000,000}{10} \times \left(1 - \frac{1,000,000}{1,000,000}\right) + 100,000 \times 1,000,000 = 1,100,000 \text{ A}$$

$$\frac{\Pi C Q^*}{\Pi C Q_1} = 1,100,000 \approx 100,000 \text{ A}$$

$$TIC = C \cdot \frac{D}{Q} + h_1 \left( \frac{Q}{Q_0} \right)^2 + h_2 \frac{Q}{\gamma} \Rightarrow \frac{d TIC}{d Q} = - \frac{C \cdot D}{Q^2} + \frac{h_1}{Q_0} + \frac{h_2}{\gamma} = 0$$

$$\Rightarrow Q^* = \frac{C \cdot D}{h_1 + h_2 \gamma} \Rightarrow Q = \sqrt{\frac{C \cdot D}{h_1 + h_2 \gamma}}$$

از آنچه در مراحل های را در شده است  
دو از صورت حذفی در



$$Q = \sqrt{\frac{Y \times Y_{00} \times 1400}{Y \times 287,000 + D_0}} = 44 \quad \Rightarrow TIC = Y_{00} \times \frac{1400}{44} + 287,000 + D_0 \times \frac{44}{\gamma} + D_0 \times 10 = 110,874$$

۱۸- مدل پیدا مجاز درین ای معرفت دینی

$$D = \frac{D_0 \dots \dots}{1400 \dots} = 141,44 \quad C = 10 \dots \dots$$

$$S = 1400 \quad h = 1400 \cdot 0,05 \sqrt{\gamma} = \frac{1400}{18} = 1000$$

$$Q^* = \sqrt{\frac{Y \cdot C \cdot D}{h} \times \frac{h+S}{S}} = \sqrt{\frac{Y \times 10 \dots \dots \times 141,44}{1000}} \times \sqrt{\frac{Y_{00}}{1400}} = 20,87,44$$

$$D = 1400 \quad Q_0 = 10 \quad h_1 = 10 \dots \dots \quad h_2 = 1000 \quad C = 1000 \quad B = 10$$

$$Q_W = \sqrt{\frac{Y \times Y_{00} \times 1400}{400}} = \sqrt{Y \times Y_0} = 12,10$$

$$TIC_W = Y_{00} \times \frac{1400}{12,10} + 10 \dots \dots \times \frac{12,10}{10} + 1000 \times \frac{12,10}{\gamma} + 1000 \times Y_0 = 110,949$$

$$TIC_{N_0} = Y_{00} \times \frac{1400}{10} + 10 \dots \dots \times 1 + 1000 \times \frac{10}{\gamma} + 1000 \times Y_0 = 111 \dots \dots \checkmark \Rightarrow Q = N_0$$

$$D = 1400 \quad C = 10 \quad i = 10 \% = 10 \quad u = Y_0 \quad Q_0 = Y_0 \quad h_1 = 1000$$

$$h_2 = i \times u = 10 \times Y_0 = 10 \quad \Rightarrow Q_W = \sqrt{\frac{Y \times 14 \times 1400}{10 \times Y_0}} = 98,4V$$

$$TIC_W = 14 \times \frac{1400}{98,4V} + 10 \dots \dots \times 10 + 1000 \times \frac{98,4V}{\gamma} = 110,874$$

$$TIC_{Y_0} = 14 \times \frac{1400}{Y_0} + 10 \dots \dots \times 1 + 1000 \times \frac{Y_0}{\gamma} = 110,874 \checkmark \Rightarrow Q = Y_0$$

$$D = 1000 \quad C = 1000000 \quad i = 10\% \quad u_0 = 1000000 \quad u_{\infty} = 1000000$$

$$Q_{0-\infty} = \sqrt{\frac{K \times D \times C}{\lambda \times \eta}} = 1000 \text{ W} \quad \text{GO} \Rightarrow Q_w = Q_{0-\infty}$$

$$Q_{\infty} = \sqrt{\frac{K \times D \times C}{\lambda \times VQ_{\infty}}} = 1000 \text{ W} \quad \text{GO}$$

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$$\Pi C_w = C_{0-\infty} \times \frac{Y_{0-\infty}}{C_{0-\infty}} + \lambda \times (VQ_{0-\infty}) \times \frac{D_0}{K} + Y_{0-\infty} \times VQ_{0-\infty} = \\ = 1000000 \times \frac{1000}{1000000} + 10 \times (1000000) \times \frac{1000}{1000} + 1000000 \times 1000000 =$$

$$\Pi C_{\infty} = C_{0-\infty} \times \frac{Y_{0-\infty}}{\infty} + \lambda \times (VQ_{0-\infty}) \times \frac{D_0}{K} + Y_{0-\infty} \times VQ_{0-\infty} = \\ = 1000000 \times \frac{1000}{\infty} + 10 \times (1000000) \times \frac{1000}{K} + 1000000 \times 1000000 \Rightarrow Q^* = Q_{0-\infty}$$



$$D = 1000 \quad h = 10 \quad u_0 = C_{0-\infty} + D_0 + h_0 = 1000 \quad (1000 \text{ L})$$

$$u_1 = C_{0-\infty} + D_0 + h_0 = 1000 \quad (1000 \text{ L})$$

$$C = 1000000 + 1000 = 1000000$$

$$t = \frac{Q_{1000}}{C_{0-\infty}} \times 1000 = 1000 \text{ W}$$

$$Q_w = \sqrt{\frac{K \times C_{0-\infty} \times 1000}{h_0}} = 1000 \quad (1000 \text{ L})$$

$$\Pi C_w = 1000000 \times \frac{1000}{1000} + 10 \times 1000 + 1000 \times 1000 = 1000000$$

$$\Pi C_{1000} = 1000000 \times \frac{1000}{1000} + 10 \times \frac{1000}{1000} + 1000 \times 1000 = 1000000 \quad \checkmark$$

$$D = 1000 \quad i = 10\% = 10\% \quad C = 1000 + 1000 = 2000$$

$$u_0 = 1000 + 1000 + 100 = 3000 \quad (3000 \text{ L})$$

$$Q_{1000} = \sqrt{\frac{K \times D \times C}{i \times h_0}} = 1000 \text{ W} \quad \text{GO}$$

$$Q_{0900} = \sqrt{\frac{K \times D \times C}{i \times h_0}} = 1000 \text{ W} \quad \text{GO}$$

$$\frac{TIC}{Q_{100}} = 10 \times \frac{Y_{100} \times 10}{10} + (10 \times Y_{100}) \times \frac{10 \times 10}{Y} Y_{100} \times Y_{100} \times 10 = 10,000 \times 10$$

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$$TIC_{Y_0} = Y_0 \times \frac{Y_{100} \times 10}{Y_0} + (10 \times Y_{100}) \times \frac{Y_0}{Y} 10 + Y_{100} \times 10 \times 10 = 10,000 \times 10$$

$$\Rightarrow Q = Y_0 \quad \therefore TIC = 10,000 \times 10$$

$$Q_0 = 100 \quad h_1 = 100 \quad D = 1000 \quad C = 100 \quad u_0 = 100 \quad (100L_0) \quad -\text{اف} - 43$$

$$u_1 = 100 \quad (100L_{100}) \quad u_Y = 100 \quad (100L_{100}) \quad u_{Y_0} = 100 \quad (100L_{100})$$

$$Q_W = \sqrt{\frac{Y \times \sum_{100} \times Y_{100}}{Y_0}} = 100,000$$

$$h_Y = Y_0$$

باید بتوانیم  $Q$  های ۱۰۰ و ۱۰۰ و ۱۰۰ و ۱۰۰ را بدست محاسبه کنیم

$$TIC_W = 100 \times \frac{Y_{100}}{100,000} + 100 \times \frac{100,000}{100} + 100 \times \frac{100,000}{Y} + 100 \times 100 =$$

$$\frac{TIC}{100} = 100 \times \frac{Y_{100}}{100} + 100 \times 10 + 100 \times \frac{100}{Y} + 100 \times 100 =$$

$$TIC_{E_0} = 100 \times \frac{Y_{100}}{100} + 100 \times \frac{100}{100} + 100 \times \frac{100}{Y} + 100 \times 100 =$$

$$\frac{TIC}{Y_0} = 100 \times \frac{Y_{100}}{Y_0} + 100 \times \frac{Y_0}{100} + 100 \times \frac{100}{Y} + 100 \times 100 = 100,000$$

$$i = Y_0 \% = 10$$

$$Q_{100L_0} = \sqrt{\frac{Y \times \sum_{100} \times Y_{100}}{Y \times 100}} = 100,000$$

$$Q = \sqrt{\frac{Y \times \sum_{100} \times Y_{100}}{Y \times Y}} = 100,000 \checkmark$$

$$Q_{100L_{100}} = \sqrt{\frac{Y \times \sum_{100} \times Y_{100}}{Y \times 100}} = 100,000 \checkmark$$

$$Q_{Y_0} = \sqrt{\frac{Y \times \sum_{100} \times Y_{100}}{Y \times Y}} = 100,000 \checkmark$$

باید بتوانیم  $Y_0$  و  $100$  و  $100$  را بدست محاسبه کنیم



$$D = ٢٢,٠٠٠ \quad C = ١٠٠ \quad i = ٣\%$$

$$Q = \sqrt{\frac{r \times ١٠٠ \times ٢٢,٠٠٠}{٢\% \times ١٤}} \approx ٣٣,٩٦٠ \times$$

$$Q = \sqrt{\frac{r \times ١٠٠ \times ٢٢,٠٠٠}{٢\% \times ١,١}} = ٤٠,٠٠٠ \sqrt{=} Q_w$$

$$Q = \sqrt{\frac{r \times ١٠٠ \times ٢٢,٠٠٠}{٢\% \times ١,١}} \approx ٣٧,٥٧ \times$$

$$Q = \sqrt{\frac{r \times ١٠٠ \times ٢٢,٠٠٠}{٢\% \times ١,٨}} \approx ٤١,٦٨٨ \times$$

$$TIC_w = TIC_{Y_0} = ١٠٠ \times \frac{٢٢,٠٠٠}{٤٠,٠٠٠} + (٢\% \times ١,١) \times \frac{٤٠,٠٠٠}{٤} + ٢٢,٠٠٠ \times ١,٩ = ٤٤,٠٠٠$$

$$TIC_{A_0} = ١٠٠ \times \frac{٢٢,٠٠٠}{٤٠,٠٠٠} + (٢\% \times ١,٩٨) \times \frac{٤٠,٠٠٠}{٤} + (٢٢,٠٠٠ \times ١,٩٨) = ٤٤,٠٩٨ \checkmark$$

$$TIC_{Y_0} = ١٠٠ \times \frac{٢٢,٠٠٠}{٤٠,٠٠٠} + (٢\% \times ١,٩٨) \times \frac{٤٠,٠٠٠}{٤} + (٢٢,٠٠٠ \times ١,٩٨) =$$

$$TIC_{Y_0} = ١٠٠ \times \frac{٢٢,٠٠٠}{٤٠,٠٠٠} + (٢\% \times ١,٩٨) \times \frac{٤٠,٠٠٠}{٤} + (٢٢,٠٠٠ \times ١,٩٨) =$$

$$Q = A_0$$

$$\rightarrow TIC^* = ٤٤,٠٩٨$$



$$D = ١٠ \quad C = ١٠ \quad i = ٣\%$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٠}} = ٣٤,١١ \approx ٣٤ \times$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٩}} = ٣٣,٢٤ \approx ٣٣ \times$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٨}} = ٣٣,٩٠ \approx ٣٤ \sqrt{=}$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٧}} = ٣٣,٤١ \approx ٣٣ \times$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٦}} = ٣٤,١١ \times$$

$$Q = \sqrt{\frac{r \times ١٠ \times ١٠}{٢\% \times ١,٥}} = ٣٤,١٠ \times$$

$$Q_w = Q_{\Sigma}$$

٢٤

$$TIC_w = \gamma_0 \times \frac{W_0}{\sum \omega} + (\gamma \omega \times q_{1,w}) \times \frac{\sum \omega}{\gamma} + W_0 \times q_{1,w} = 14 \sum Y_{yy} \approx 14 \sum V$$

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$$TIC_{q_0} = \gamma_0 \times \frac{W_0}{q_0} + (\gamma \omega \times q_{1,r}) \times \frac{W_0}{\gamma} + W_0 \times q_{1,r} =$$

$$TIC_{100} = \gamma_0 \times \frac{W_0}{100} + (\gamma \omega \times q) \times \frac{100}{\gamma} + W_0 \times q =$$

$$TIC_{1000} = \gamma_0 \times \frac{W_0}{1000} + (\gamma \omega \times \lambda_{yy}) \times \frac{1000}{\gamma} + W_0 \times \lambda_{yy} =$$



$$C = \sum \lambda_{yy} \quad h = \omega_0 \quad D = 10 \lambda_0$$

$$q_{h_0} = 0 \quad q_1 = 100 \quad q_{\gamma} = W_0 / \gamma$$

$$W_0 = 1000 \quad W_1 = 900 \quad W_{\gamma} = 900$$

$$TIC_{1000} = 0 + W_0 [1000 - 0] = W_0 = 1000$$

$$TIC_{W_0} = 1000000 + 900 [1000 - 1000] = 1000000$$

$$Q_0 = \sqrt{\frac{\gamma \times [\sum \lambda_{yy} + q_0] \times 10 \lambda_0}{\omega_0}} = 1440$$

$$Q_{\gamma} = \sqrt{\frac{\gamma \times [\sum \lambda_{yy} + \gamma \sum \lambda_{yy} - q_0 (\gamma \gamma)]}{\omega_0}}$$

$$Q_1 = \sqrt{\frac{\gamma \times [\sum \lambda_{yy} + W_0 - q_0 (W_0)] \times 10 \lambda_0}{\omega_0}} = 1140$$

$$Q_{\gamma} = 1000$$

$$Q_w = Q_{W_0} \Rightarrow TIC_w = [\sum \lambda_{yy} + W_0 - q_0 (W_0)] \times \frac{10 \lambda_0}{W_0} + \omega_0 \times \frac{W_0}{\gamma} + 10 \lambda_0 \times q_0$$

$$\Rightarrow TIC_w = 1140000$$

$$D = \cancel{W_0} \quad \cancel{W_0}$$

$$C = \cancel{W_0}$$

$$i = \gamma \omega_0$$

$$W_1 = q_{1,r}$$

$$Q_1 = \sqrt{\frac{\gamma \times W_0 \times \gamma}{\gamma \omega_0 \times q_{1,r}}} = \cancel{W_0} \cancel{q_{1,r}}$$

$$i = \gamma \omega_0$$

$$W_0 = \cancel{W_0}$$

$$q_{1,r} = \cancel{q_{1,r}}$$

$$\Rightarrow TIC = 1000$$

دالة تكلفة التأمين  $\in TIC_w = 1140000$ ,  $Q_w = Q_{W_0}$  هي تكلفة التأمين في سين