

$$1) y = C + i + g = C + S + t_g$$

$$\Rightarrow 0.50 + 200 = S + \cancel{t} - t_r$$

$$S = 62.5$$

$$C = 100 + 0.8y_d = 100 + 0.8(y - t_g)$$

$$= 0.8y - 160 = y - i - g = y - 250$$

$$2. y = \frac{160}{0.2} = 800 \text{ (10亿美元)}$$

(2)

$$C = 0.8y - 150$$

$$\therefore 0.8y - 150 + g + i = y$$

$$\Rightarrow i = 0.2y + 150 - g$$

$$k_i = \frac{\Delta y}{\Delta i} = 5$$

$$C = 0.8y - 0.8t_g + 100$$

$$y = 0.8y - 0.8t_g + 100 + g + i$$

$$\Rightarrow k_t = \frac{\Delta y}{\Delta t_g} = -4$$

$$t_g = t - t_r$$

$$\therefore y = 0.8y - 0.8t + 0.8t_r + 100 + g + i$$

$$\therefore k_{t_r} = \frac{\Delta y}{\Delta t_r} = 4$$

$$k_g = \frac{\Delta y}{\Delta g} = \frac{1}{1-\beta}$$

$$k_{t_g} = \frac{\Delta y}{\Delta t_g} = \frac{\Delta y}{\Delta t_g} = -\frac{\beta}{1-\beta}$$

$$\therefore \Delta y = \frac{1}{1-\beta} \Delta g + \frac{\beta}{1-\beta} \Delta t_g$$

$$\frac{1}{2} \Delta g = \Delta t \Rightarrow \frac{\Delta y}{\Delta g} = \frac{\Delta y}{\Delta t} = 1$$



2. 由 1. 知:  $y = 1000$

$$\Delta y = 1200 - 1000 = 200.$$

$$\frac{\Delta y}{\Delta g} = \frac{1}{1-\beta} = 5.$$

$$\therefore \Delta g = 40.$$

$$(2) \frac{\Delta y}{\Delta t} = -\frac{\beta}{1-\beta} = -4$$

$$\Rightarrow \Delta t = -50.$$

$$(3) \Delta y = \frac{1}{1-\beta} \Delta g + 1 - \frac{\beta}{1-\beta} \Delta t$$

$$= \frac{1-\beta}{1-\beta} \Delta t = \frac{1-\beta}{1-\beta} \Delta g$$

$$\Rightarrow \Delta t = \Delta g = 200. (1050 \text{ 美元})$$

$$3. S = -1600 + 0.25(y - t) = y - i + g - t.$$

$$t + i + g = 0$$

$$\therefore i = -1600 - g + 0.75t + 0.25y.$$

$$\therefore \frac{\Delta y}{\Delta i} = 4.$$

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$$\Delta i = 600 - 400 = 200$$

$$\therefore \Delta y = 800.$$





4.

$$\begin{aligned} \text{a)} \quad y &= C + i + g = 1000 + 0.75(y - t) + i + g \\ &= 1000 + 0.75y - 450 + 800 + 750, \\ &= 2100 + 0.75y. \end{aligned}$$

$$\therefore y = 8400.$$

$$\text{(2)} \quad C = 1000 + 0.75(8400 - 600) = 1000 + 5850 = 6850$$

$$\text{(3)} \quad s = y - C - t = 8400 - 6850 - 600 = 950$$

$$\text{政府储蓄 } t - g = 600 - 750 = -150$$

$$\text{(4)} \quad 1000 + 0.75y - 0.75t + i + g = y$$

即

$$0.25y = i + g - 0.75t + 1000$$

$$\therefore \frac{\Delta y}{\Delta t} = 4$$

$$\text{即 } k_i = 4$$

$$5. \quad \text{MPS} = 0.2 \Rightarrow \text{MPC} = 0.8$$

$$\begin{aligned} \therefore C &= \alpha + \beta y_d = \alpha + 0.8(y - t) \\ &= y - t - g = \alpha + 0.8(y - T + tr) \end{aligned}$$

$$k_g = \frac{1}{1 - \beta} = 5$$

$$k_t = -\frac{\beta}{1 - \beta} = -4$$

$$k_{tr} = \frac{\beta}{1 - \beta} = 4$$

$$\Delta y = k_g \Delta g + k_t \Delta t + k_{tr} \Delta tr = 150 + 1200 - 1200 = 150$$



$$\begin{aligned}
 6. \quad y &= C + i + g + NX \\
 &= 30 + 0.8(y - t_n) + 60 + 50 + 50 - 0.05y \\
 i + g + NX &= 50
 \end{aligned}$$

$$\begin{aligned}
 6. \quad (1) \quad y &= C + i + g + NX \\
 &= 30 + 0.8(y - t_n) + 60 + 50 + 50 - 0.05y \\
 &= 30 + 0.8y - 40 + 60 + 50 + 50 - 0.05y \\
 &= 150 + 0.75y \\
 \therefore y &= 600
 \end{aligned}$$

$$(2) \quad NX = 50 - 0.05y = 20$$

$$\begin{aligned}
 (3) \quad y &= C + i + g + NX = 30 + 0.8y - 0.8t_n + i + g + NX \\
 &\Rightarrow \frac{\Delta y}{\Delta i} = 4
 \end{aligned}$$

$$\therefore k_i = 4$$

$$(4) \quad \Delta y = k_i \cdot \Delta i = 4 \times (70 - 60) = 40$$

$$\therefore y = 640 \Rightarrow NX = 50 - 0.05y = 18$$

$$\begin{aligned}
 (5) \quad y &= 30 + 0.8y - 0.8t_n + i + g + NX - 0.05y \\
 \Rightarrow 0.25y &= 140 \Rightarrow y = 560
 \end{aligned}$$

$$NX = 40 - 0.05y = 12$$

