

$$1. \textcircled{1} \because y = c + i + g = 100 + 0.8(y - 250 + 62.5) + 50 + 200$$

∴ 均衡收入  $y = 1000$

$$\textcircled{2} \because \begin{cases} y = c + i + g \\ c = \alpha + \beta y_d = \alpha + \beta(y - t + tr) \end{cases} \therefore y = \frac{\alpha + i + g + \beta tr - \beta t}{1 - \beta}$$

$$\therefore k_i = \frac{1}{1 - \beta} = 5, \quad k_g = \frac{1}{1 - \beta} = 5, \quad k_t = \frac{-\beta}{1 - \beta} = -4$$

$$k_{tr} = \frac{\beta}{1 - \beta} = 4, \quad k_{\text{平均}} = k_g + k_t = 1$$

$$2. \textcircled{1} g = \frac{1200 - 1000}{k_g} = \frac{200}{5} = 40$$

$$\textcircled{2} t = \frac{1200 - 1000}{|k_t|} = 50$$

$$\textcircled{3} \text{ 设 } \Delta g = \Delta t = x, \text{ 则 } 1200 = 100 + 0.8(1200 - t + tr + x) + i + g + x$$

$$\text{即 } 1200 = 100 + 0.8 \times (1200 - 250 + 62.5 + x) + 50 + 200 + x$$

$$\therefore x = 22 \quad \therefore \text{应增加 } 22 \text{ (10亿美元)}$$

$$3. \because \begin{cases} S = -1600 + 0.15 y_d \\ S = i \end{cases}$$

$$\therefore \text{当 } i = 400 \text{ 时, } S = -1600 + 0.15 y_d = 400 \quad \therefore y_d = 8000$$

$$\text{当 } i = 600 \text{ 时, } S = -1600 + 0.15 y_d = 600 \quad \therefore y_d = 8800$$

$$\therefore 8800 - 8000 = 800 \quad \therefore \text{增加 } 800$$

$$4. \textcircled{1} \because y = c + i + g = 1000 + 0.75(y - 600) + 800 + 750$$

$$\therefore \text{均衡收入 } y = 8400, \quad y_d = y - t = 8400 - 600 = 7800$$

$$\textcircled{2} c = 1000 + 0.75 y_d = 1000 + 0.75 \times 7800 = 6850$$

$$\textcircled{2} \because y = c + s + t \therefore 8400 = 6850 + s + 600$$

$$\therefore \text{私人储蓄为: } s = 950$$

$$\text{又} \because t - g = 600 - 750 = -150 \therefore \text{政府储蓄为 } -150$$

$$\textcircled{4} k_i = \frac{1}{1-0.75} = 4$$

$$\begin{aligned} 5. \because \begin{cases} c = 2 + \beta y_d \\ y = c + s \end{cases} \therefore s = y - c = y - 2 - \beta(y - t + tr) \\ = (1-\beta)y - 2 + \beta(t - tr) \end{aligned}$$

$$\therefore 1-\beta = 0.2 \therefore \beta = 0.8$$

$$\text{又} \because \begin{cases} y = c + i + g \\ c = 2 + \beta y_d \end{cases} \therefore y = \frac{2}{1-\beta} - \frac{\beta}{1-\beta}t + \frac{\beta}{1-\beta}tr + \frac{i}{1-\beta} + \frac{g}{1-\beta}$$

$$\therefore k_g = \frac{1}{1-\beta} = 5, k_{tr} = \frac{\beta}{1-\beta} = \frac{0.8}{0.2} = 4, k_t = -\frac{\beta}{1-\beta} = -4, k_c = 5$$

$$\therefore c \text{ 增加 } 600, y \text{ 增加 } 600 \times 5 = 3000$$

$$g \text{ 减少 } 300, y \text{ 减少 } 300 \times 5 = 1500$$

$$tr \text{ 减少 } 300, y \text{ 减少 } 300 \times 5 = 1500$$

$$t \text{ 减少 } 300, y \text{ 增加 } 300 \times 5 = 1500$$

$$\therefore \Delta y = 3000 - 1500 - 1500 + 1500 = 1500$$

$$\text{附加: } \textcircled{1} \begin{cases} c = 30 + 0.8(y-50) \\ y = c + i + g + nx = 30 + 0.8(y-50) + 60 + 50 + 50 - 0.05y \end{cases}$$

$$\therefore \text{均衡收入 } y = 600$$

$$\textcircled{2} nx = 50 - 0.05 \times 600 = 20$$

$$\textcircled{3} k_i = \frac{1}{1-\beta} = \frac{1}{0.2} = 5$$

$$\textcircled{4} \Delta i = 10 \therefore \Delta y = k_i \cdot \Delta i = 50 \therefore y' = 600 + 50 = 650 \therefore nx = 17.5$$

$$\textcircled{5} y = c + i + g + nx = 30 + 0.8(y-50) + 60 + 40 - 0.05y$$

$$\therefore y = 560, nx = 40 - 0.05 \times 560 = 12$$