

$$1. (1) C + i + g = C + S + (t - tr)$$

$$S = i + g - (t - tr) = 50 + 200 - (250 - 62.5) = 62.5 \text{ 亿美元}$$

$$S = Y_d - C = -100 + 0.2Y_d = -100 + 0.2[Y - (t - tr)]$$

$$= -100 + 0.2Y - 37.5 = 0.2Y - \overset{137.5}{\cancel{177.5}} = \overset{62.5}{\cancel{62.5}}$$

$$\therefore \cancel{0.2} Y = \overset{137.5}{\cancel{2687.5}} \text{ 1000 亿美元}$$

$$(2) \text{ 投资乘数} = \frac{1}{1-\beta} = 5$$

$$\text{政府支出乘数} = \frac{1}{1-\beta} = 5$$

$$\text{税收乘数} = \frac{-\beta}{1-\beta} = -4$$

$$\text{转移支付乘数} = \frac{\beta}{1-\beta} = 4$$

平衡预算乘数为 1



$$2. (1) k_g = \frac{\Delta Y}{\Delta g} = 5$$

$$\therefore \Delta g = \frac{\Delta Y}{k_g} = \frac{1200 - 1000}{5} = 40$$

$\therefore$  政府购买增加 40 亿美元

$$(2) k_t = \frac{\Delta Y}{\Delta t} = -4$$

$$\therefore \Delta t = \frac{\Delta Y}{k_t} = -\frac{200}{4} = -50$$

$\therefore$  税收减少 50 亿美元

$$(3) k_b = \frac{\Delta Y}{\Delta g} = \frac{\Delta Y}{\Delta t} = 1$$

$\therefore \Delta g = \Delta t = \Delta Y = 200$   $\therefore$  政府购买和税收各需 200 亿美元



$$3. \quad MPC = 1 - MPS = 1 - 0.25 = 0.75$$

$$\therefore K_i = \frac{1}{1 - MPC} = 4$$

$$\therefore \frac{\Delta Y}{\Delta i} = \frac{\Delta Y}{600 - 400} = 4$$

$$\therefore \Delta Y = 800$$

$\therefore$  均衡国民收入增加 800



$$4. (1) Y_d = Y - t = Y - 600$$

$$S = Y_d - C = -1000 + 0.25Y_d = -1000 + 0.25(Y - 600)$$

$$\because S + t = i + g$$

$$\therefore S = i + g - t = 800 + 750 - 600 = 950$$

$$\therefore -1000 + 0.25(Y - 600) = 950$$

$$\therefore Y = 8400$$

$$Y_d = Y - 600 = 7800$$

$$(2) C = 1000 + 0.75Y_d = 6850$$

$$(3) \cancel{S_p} S_p = Y_d - C = 7800 - 6850 = 950$$

$$S_g = t - g = 600 - 750 = -150$$

$$\cancel{S_p = S - S_g = 1100}$$

$$(4) K_i = \frac{1}{1 - MPC} = \frac{1}{1 - 0.75} = 4$$





$$5. \because MPS = 0.2$$

$$\therefore MPC = 1 - MPS = 1 - 0.2 = 0.8$$

$$K_g = \frac{1}{1 - MPC} = 5 \quad K_{tr} = \frac{MPC}{1 - MPC} = 4$$

$$K_t = \frac{-MPC}{1 - MPC} = -4$$

$$\Delta Y = -300 \cdot K_g - 300 \cdot K_{tr} - 300 \cdot K_t$$

$$= -300(K_g + K_t) - 300 K_{tr}$$

$$= -300 K_b - 300 K_{tr}$$

$$= -1500$$

$\therefore$  新的均衡国民收入减少1500



附加题

$$1. (1) y = \frac{\alpha + g + i - \beta t + \beta tr + x - m_0}{1 - \beta + y}$$
$$= \frac{30 + 50 + 60 - 0.8 \times 50 + \cancel{0.8} 50}{1 - 0.8 + 0.05}$$

$$= 600$$

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

$$(3) k_i = \frac{1}{1 - \beta + y} = \frac{1}{1 - 0.8 + 0.05} = 4$$

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

$$\therefore y' = 600 + 40 = 640$$

$$\therefore nx' = 50 - 0.05y' = \cancel{2} 18$$

$\therefore$  投资从60增至70时的均衡收入为640，  
净出口余额为18

$$(5) y = \frac{\alpha + g + i - \beta t + \beta tr + x - m_0}{1 - \beta + y} \quad \star$$

$$= \frac{30 + 50 + 60 - 0.8 \times 50 + \cancel{0.8} 40}{1 - 0.8 + 0.05} = 560 \quad \therefore nx = 50 - 0.05 \times 560 = 22$$

