

1.

$$(1) \begin{cases} y = C + i + g \\ y_d = y - t + tr \end{cases} \Rightarrow \begin{cases} y = 100 + 0.8y_d + 250 \\ y_d = y - 187.5 \end{cases} \Rightarrow y = 1000$$

(2)

投资乘数 $k_g = \frac{1}{1-\beta} = 5$

政府支出乘数: $k_g = \frac{\Delta y}{\Delta g} = \frac{1}{1-\beta} \Rightarrow k_g = \frac{1}{0.2} = 5$
 $C = a + \beta y = 100 + 0.8y_d$

税收乘数: $k_t = \frac{\Delta y}{\Delta t} = \frac{-\beta}{1-\beta} = \frac{-0.8}{0.2} = -4$

转移支付乘数: $k_{tr} = \frac{\Delta y}{\Delta tr} = \frac{0.8}{0.2} = 4$

平衡预算乘数: $k_B = \frac{\Delta y}{\Delta t} = \frac{1-\beta}{1-\beta} = 1$

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

(1) $\Delta y = \Delta g \cdot k_g \Rightarrow 5\Delta g = 200 \Rightarrow \Delta g = 40$ 需增加 40 (10亿美元)

(2) $\Delta y = -k_t \cdot \Delta t \Rightarrow -4\Delta t = 200 \Rightarrow \Delta t = -50$, 需减少 50 (10亿美元)

3. $\begin{cases} \Delta y = k_g \Delta g - k_t \Delta t \\ \Delta g = \Delta t \end{cases} \Rightarrow 200 = 5\Delta g - 4\Delta g, \text{ 需 } 200 \text{ (10亿美元)}$
 $\Rightarrow \Delta g = 200$

$$3. S = a + (1-\beta)yd$$

$$a = 1600, \beta = 0.75$$

∴ 国民收入增加 800

$$k_f = \frac{1}{1-\beta} = \frac{1}{0.25} = 4$$

$$\therefore \Delta y = k \Delta i = 800$$

4.

(1) 均衡国民收入:

$$\begin{cases} y = c + i + g \\ c = 100 + 0.75yd \\ yd = y - t \end{cases} \Rightarrow y = 8400$$

$$\text{可支配收入} = y - t = 7800$$

$$(2) C = 100 + 0.75yd = 6800$$

$$(3) \begin{aligned} S + t &= i + g \\ S + 600 &= 800 + 750 \end{aligned}$$

$$\Rightarrow S = 950 \text{ (g.m.)}$$

$$\text{政府储蓄} = t - g = -150$$

$$(4) \text{投资乘数 } k_f = \frac{1}{1-\beta} = \frac{1}{0.25} = 4$$

$$5. C = a + \beta yd$$

$$\beta = 0.8$$

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

$$k_{tr} = \frac{\beta}{1-\beta} = \frac{0.8}{0.2} = 4$$

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

预期收入将增加 1500

解答题

$$(1) \begin{cases} y = c + i + g + nx \\ c = 30 + 0.8(y - t) \end{cases} \Rightarrow y = 600$$

$$(2) \quad nx = 50 - 30 = 20$$

$$(3) \quad k_f = \frac{1}{1-\beta} = 5$$

$$(4) \quad \Delta y = k_f \Delta x = 50$$

$$y_1 = y + \Delta y = 650$$

$$nx = 50 - 32.5 = 17.5$$

$$(5) \quad y = 30 + 0.8y - 40 + 60 + 50 + 10 - 0.25y$$

$$0.25y = -10 + 50 = 40$$

$$y = 560$$

$$nx = 40 - 28 = 12$$