

$$1. (1) \begin{cases} y = c + i + g \\ y_d = y - t + tr \end{cases}$$

$$\therefore y = 100 + 0.8(y - 250 + 600) + 250$$

$$= 1000$$

$$(2) \beta = 0.8$$

$$K_i = \frac{\Delta y}{\Delta i} = \frac{1}{1-\beta} = 5$$

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

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

$$K_{tr} = \frac{\Delta y}{\Delta tr} = \frac{\beta}{(1-\beta)} = 4$$

$$K_b = K_g + K_t = 1$$

$$2. 1200 - 1000 = 200$$

$$(1). K_g = 5, \Delta g = 1000$$

$$(2) K_t = -4, \Delta t = -800$$

$$(3) 5x - 4x = 200$$

$$x = 200 \quad \therefore \text{大约 200 billion}$$

$$3. 1 - \beta = 0.25$$

$$\beta = 0.75$$

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

$$\therefore \Delta y = K_s \cdot \Delta S = 800$$

$$4. (1) \begin{cases} y = c + i + g \\ y_d = y - t + tr \end{cases}$$

$$\therefore y = 1000 + 0.75(y - 600) + 800 + 750$$

$$= 8400$$

$$y_d = 8400 - 600$$

$$= 7800$$

$$(2). c = 1000 + 0.75 y_d$$

$$= 6850$$

$$(3) S_p = y_d - c = 7800 - 6850 = 950$$

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

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

$$5. mps = 1 - \beta = 0.2$$

$$\beta = 0.8$$

$$\therefore K_g = \frac{1}{1-\beta} = 5 \quad \Delta y = -1500$$

$$K_{tr} = \frac{\beta}{1-\beta} = 4 \quad \Delta y = 1200$$

$$K_t = -\frac{\beta}{1-\beta} = -4 \quad \Delta y = 1200$$

$$\therefore \Delta y = -1500 \quad \text{抵消 } 1500$$

附加题:

$$(1) \begin{cases} y = c + i + g + nx \\ y_d = y - t + tr \end{cases}$$

$$\therefore y = 30 + 0.8(y - 50) + 60 + 50 + 50 - 0.05y$$

$$= 600$$

$$(2) nx = 50 - 0.05y$$

$$= 50 - 0.05 \times 600 = 20$$

$$(3) \beta = 0.8, r = 0.05$$

$$K_i = \frac{1}{1-\beta+r} = 4$$

$$(4) \begin{cases} y = c + i + g + nx \\ y_d = y - t + tr \end{cases}$$

$$y = 0.8(y - 50) + 30 + 75 + 50 + 50 - 0.05y$$

$$= 640$$

$$nx = 50 - 0.05y$$

$$= 50 - 0.05 \times 640$$

$$= 18$$

$$(5) \begin{cases} y = c + i + g + nx \\ y_d = y - tr + tr \end{cases}$$

$$y = 0.8(y - 50) + 30 + 60 + 50 + 40 - 0.05y$$

$$= 510$$

$$nx = 40 - 0.05y$$

$$= 40 - 0.05 \times 510 = 12$$