

$$1. (1) y = C + i + g$$

$$= 100 + 0.8(y - t + t_r) + i + g$$

$$= 0.8y + 200$$

$$\therefore y = 1000$$

$$(2) k_f = \frac{1}{1-p} = \frac{1}{1-0.8} = 5$$

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

$$k_t = -\frac{p}{1-p} = -\frac{0.8}{1-0.8} = -4$$

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

$$k_b = \frac{1-p}{1-p} = 1$$

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

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

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

$$\therefore \Delta t = \frac{\Delta y}{k_t} = \frac{1200-1000}{-4} = -50$$

$$\therefore \text{减少 } 50$$

$$(3) \text{设需增加 } x$$

$$y' = C + i + g$$

$$= 100 + 0.8[y' - (t+x) + t_r] + i + (g+x)$$

$$= 0.8y' + 0.2x + 200$$

$$\therefore 0.2x = 0.2y' - 200$$

$$\therefore x = 200$$

$$\therefore \text{需 } 200$$

$$3. \therefore S = -1600 + 0.25y_d$$

$$\therefore p = 1 - 0.25 = 0.75$$

$$\therefore k_i = \frac{\Delta y}{\Delta i} = \frac{1}{1-p} = \frac{1}{1-0.75} = 4$$

$$\therefore \Delta y = k_i \Delta i = 4 \times (600 - 400) = 800$$

$$4. (1) y = C + i + g$$

$$= 1000 + 0.75(y - t) + i + g$$

$$= 0.75y + 2100$$

$$\therefore y = 8400$$

$$y_d = y - t = 8400 - 600 = 7800$$

$$(2) C = 1000 + 0.75y_d = 1000 + 0.75 \times 7800 = 6850$$

$$(3) S = y_d - C = 7800 - 6850 = 950$$

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

$$(4) k_i = \frac{1}{1-p} = \frac{1}{1-0.25} = 4$$

$$5. \text{由题} \quad 1-p = 0.2 \quad \therefore p = 0.8$$

$$k_g = \frac{1}{1-p} = \frac{1}{0.2} = 5$$

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

$$k_t = -\frac{p}{1-p} = -\frac{0.8}{0.2} = -4$$

$$\therefore \Delta y = k_g \Delta g + k_{tr} \Delta t_r + k_t \Delta t$$

$$= 5 \times (-30) + 4 \times (-30) + (-4) \times (-30)$$

$$= -150$$

故新均衡国民收入将减少150

附加题

$$(1) y = C + i + g + nx$$

$$= 30 + 0.8(y - t_n) + i + g + nx$$

$$= 0.75y + 150$$

$$\therefore y = 600$$

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

$$(3) k_i = \frac{1}{1-p} = \frac{1}{1-0.8} = 5$$

$$(4) y' = C + i' + g + nx'$$

$$= 30 + 0.8(y' - t_n) + i' + g + 50 - 0.05y'$$

$$= 0.75y' + 160$$

$$\therefore y' = 640$$

$$nx' = 50 - 0.05y' = 18$$

$$(5) y'' = C + i + g + nx''$$

$$= 30 + 0.8(y'' - t_n) + i + g + 40 - 0.05y''$$

$$= 0.75y'' + 140$$

$$\therefore y'' = 560$$

$$nx'' = 40 - 0.05y'' = 12$$