1. (1) $c = 100 + 0.8(y - 250)$

$= 0.8y - 100$

$S = y_d - c$

$= (y - 250) - (0.8y - 100)$

$= 0.2y - 150$

$i + g = S + t$

即 $50 + 200 = (0.2y - 150) + 250$

$y = 750$ (10亿美元)

(2) $K = \frac{1}{1-\beta} = \frac{1}{1-0.8}$

$= 5$

$k_g = 5$

$k_T = -\frac{\beta}{1-\beta} = -\frac{0.2}{1-0.2} = -0.25$

$K_{tr} = \frac{\beta}{1-\beta} = 0.25$

$k_b = 1$

2. (1) 设 $y = 1200$

$i + g = S + t$

$50 + g = (240 - 150) + 250$

$g = 290$ (十亿美元)

(2) $C = 100 + 0.8(1200 - t)$

$= -0.8t + 1060$

$S = (1200 - t) - (-0.8t + 1060)$

$= -0.2t + 140$

$i + g = S + t$

$50 + 200 = -0.2t + 140 + t$

$t = 137.5$ (十亿美元)

(3) $C = 100 + 0.8(1200 - 250 - x)$

$= 760 - 0.8x$

$S = (1200 - 250 - x) - (760 - 0.8x)$

$= -0.2x + 190$

$S + g = i + t$

$(-0.2x + 190) + (200 + x) = 50 + (250 + x)$

$x = 450$ (十亿美元)

3. $\Delta y = \Delta S \times \frac{1}{1-\beta}$

$= \frac{800}{3}$

4. (1) $S = y_d - C$

$= 0.25y_d - 1000$

$S + g = i + t$.

$y_d = 6600$

$y = 7200$

(2) $C = 1000 + 4800$

$= 5800$

(3) $S_p = 600$

$S_g = -150$

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

5. $\beta = 0.8$.

$k_{支} = \frac{1}{1-0.8} = 5$. $k_g = 5$ $k_{tr} = \frac{0.8}{1-0.8} = 4$ $k_t = \frac{0.8}{1-0.8} = -4$

$\triangle y = 5 \times 600 - 5 \times 300 + 4 \times 300 - 4 \times 300$

$= 1500$

1. (1) $S = y_d - C$

$= (y-50) - [30 + 0.8(y-50)]$

$= 0.2y - 40$

$S + tn = i + g + nx$

即 $0.2y - 40 + 50 = 60 + 50 + 50 - 0.05y$

$0.25y = 150$ $y = 600$

(2) $nx = 50 - 0.05 \times 600$

$= 20$

(3) $k_i = \frac{1}{1-\beta} = 5$.

(4) $\triangle y = k \cdot \triangle I = 50$.

$y = 650$.

$nx = 50 - 650 \times 0.05$

$= 17.5$

(5) 由(1)得: $y = 560$

$nx = 40 - 560 \times 0.05$

$= 12$.