Mo Tu We Th Fr Sa Su

Memo No.

Date / /

1. 解：1) $y = \frac{\alpha + i + g + \beta tr - \beta t}{1-\beta} = \frac{100+50+200+0.8(62.5-250)}{0.2}$

$= 1000$ (10万亿美元)

2) $Ki = \frac{1}{1-\beta} = \frac{1}{0.2} = 5$, $Kt = \frac{-\beta}{1-\beta} = \frac{-0.8}{0.2} = -4$,

$Ktr = \frac{\beta}{1-\beta} = \frac{0.8}{0.2} = 4$, $Kb = \frac{\Delta y}{\Delta g} = 1$, $Kg = \frac{1}{1-\beta} = 5$

2. 1) $1200 - 1000 = 200$, $\Delta g = 200 / Kg = 200 \div \frac{1}{1-0.8} = 40$

2) $\Delta t = 200 / |Kt| = 200 \div 4 = 50$

3) $\frac{\Delta y}{\Delta g} = \frac{\Delta y}{\Delta t} = 1$, 则 $\Delta g = \Delta t = 200$

答：1) 增加政府购买 40　2) 减少税收 50　3) 各需 2000万亿

3. $Ki = \frac{1}{1-\beta} = \frac{1}{0.25} = 4$, 则 $\Delta y = 4 \times (1600 - 400) = 8400$ 答：国民收入增加8400

4. 1) $y = \frac{\alpha + i + g - \beta t}{1-\beta} = \frac{1000+800+750-0.75\times600}{0.25} = \frac{2510-450}{0.25} = 8400$

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

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

3) $S = -1000 + 0.25yd = -1000 + 0.25 \times 7800 = 950$,

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

4) $Ki = \frac{1}{1-\beta} = 4$　答：1) 均衡国民收入为8400，可支配收入为7800　2) 消费支出为6850，私人储蓄为950，政府储蓄为-150　4) 投资乘数为4

Memo No.

Date / /

Mo Tu We Th Fr Sa Su

上. $y_1 = \frac{\alpha+i+g+\beta t_1-\beta t}{1-\beta}$; $y_2 = \frac{\alpha+i+(g-300)+\beta(t_1-300)-\beta(t-300)}{1-\beta}$

$= \frac{\alpha+i+g+\beta t_1-\beta t-300-300\beta+300\beta}{1-\beta} = y_1 + \frac{300\beta}{1-\beta}$

则 $y_2 - y_1 = \frac{300}{1-\beta} = \frac{300}{0.2} = 1500$ 答：新的均衡收入将增加1500

附加题：

1. (1) $y = c+i+g+nx = 30+0.8(y-50)+60+50+50-0.05y$

$= 0.75y+30-40+60+50+50 = 0.75y+150$ ，解得 $y=600$

(2) $nx = 50-0.05y = 50-0.05\times600 = 20$.

(3) $y = c+i+g+nx = \alpha+\beta y_d+i+g+nx = \alpha+\beta(y-tn)+g+(50-0.05y)+i$

则 $y = \frac{\alpha-\beta tn+g+50+i}{1-\beta+0.05}$ ，则 $ki = \frac{dy}{di} = \frac{1}{1-\beta+0.05} = \frac{1}{1-0.8+0.05} = 4$

(4) $\Delta y = 4\times(70-60) = 40$，则 $y' = y+\Delta y = 600+40 = 640$

$nx' = 50-0.05\times640 = 18$

(5) $y' = c+i+g+nx = 30+0.8(y-50)+60+50+40-0.05y$.

则 $y'' = 560$ ，$nx'' = 40-0.05\times560 = 12$

答：(1) 均衡收入为600 (2) 净出口等额为20 (3) 投资乘数为4.

(4) 均衡收入为640，净出口等额为18. (5) 均衡收入为560. 净出口等额12.