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$$1. \quad y = \frac{2 + i + g + \beta tr - \beta t}{1 - \beta} = \frac{100 + 50 + 200 + 0.8 \times (62.5 - 20)}{1 - 0.8}$$

$$= 1000$$

$$2) \quad k_i = \frac{\Delta y}{\Delta i} = \frac{dy}{di} = \frac{1}{1 - \beta} = 5.$$

$$k_g = \frac{dy}{dg} = \frac{1}{1 - \beta} = 5.$$

$$k_t = \frac{dy}{dt} = -\frac{\beta}{1 - \beta} = -\frac{0.8}{0.2} = -4$$

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

$$k_b = \frac{dy}{dg} \quad k_g + k_t = 1$$

$$2. \quad 1) \quad 1200 = \frac{100 + 50 + g' + 0.8 \times (62.5 - 150)}{1 - 0.8}$$

$$\Rightarrow g' = 240 \quad \therefore \Delta g = g' - g = 40.$$

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

$$2) \quad \Delta t = \frac{\Delta y}{k_t} = \frac{200}{-4} = -50.$$

$$b). \quad \frac{\Delta y}{k_b} = 200.$$

$$3. \quad k_i = \frac{1}{1 - \beta} = \frac{1}{0.23} = 4.$$

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

