## Answers to Robbens I.

- 1. a) 5; b) 8.333..; c) 9.0909...; d) 9.8039... e) 9.90099... Gress  $A_f \rightarrow 10$ .  $\frac{1}{\beta} = 10.0$ .
- 2. a) 4.99; b) 2.498...; c) 1.249... a) 0.9996... (5.0) (2.5) (1.25) (1.0)
- 3.  $x_{in} = \frac{1}{101}$ ; decreased.  $x_{in} \rightarrow 0$
- 4.  $\frac{x_0'}{x_0} = -\beta Aoe; \frac{x_1'}{x_{11}} = -Aoe \beta;$
- 5. Initial Sain 20.818; Final Jani = 20.832  $\Delta A_{f} = 6.725 \times 10^{-4}$ . From notes  $\Delta A_{f} \approx \frac{1}{1 + 2400 \times \frac{1}{21}} \times \frac{200}{2400} = 7.23 \times 10^{6}$ There accounts Kan column version!
- 6. FGE = 1 = 0.875%.
- 7.  $9.744 < A_{f} < 10.139$  ie  $A_{f} = 9.9415 \pm 0.1975$ . NB Mès evrer in  $\pm 0.1975 \times 100 = \pm 1.99\%$  of evrer in  $\beta$  which in  $\pm 0.002 \times 100 = \pm 2.0\%$ !
- 8. Answers given.

## Answers to Problems II

- 10; 9.375
- 2. Gwin in Questin
- (3) RF+RE.