(c)
$$FV_{570} \Rightarrow -Xe^{5r} - 2Xe^{3r} + 2e^{2r} + 5270$$

 $\frac{7}{3} + e^{2r}$

(6)
$$e^{r_1}e^{4r_2} = e^{5r_2}e^{4r_2}$$

(c)
$$e^{r_1 4r_2} = CI+ reff$$
)

 $reff = e^{\frac{r_1 + fr_2}{5}} - 1$

$$\frac{1-91}{52}$$
 $\frac{1-97}{90}$ $\frac{1-97}{120}$ $\frac{1-97$

$$q_{1} = \frac{S_{2} - S_{1}e^{rot}}{S_{2} - S_{3}} = \frac{120 - 100}{120 - 90} = \frac{2}{3} \quad q_{2} = \frac{S_{6} - S_{3}e^{rot}}{S_{6} - S_{1}} = \frac{120 - 90}{120 - 80} = \frac{3}{4}$$

$$q_{3} = \frac{S_{4} - S_{2}e^{rot}}{S_{4} - S_{5}} = \frac{140 - 120}{140 - 150} = \frac{1}{2} \quad 1 - 9_{1} = \frac{1}{3} \quad 1 - 9_{2} = \frac{1}{4} \quad 1 - 9_{3} = \frac{1}{2}$$

(0) not exercise.

$$\sqrt{\frac{V_2}{93}} = \max(k-S_5,0) = \max(k_2-100,0) = 32$$
 $\sqrt{\frac{12}{52}} = \max(k-S_5,0) = \max(k_2-100,0) = 12$
 $\sqrt{\frac{12}{52}} = \max(k-S_5,0) = \max(k_2-100,0) = 12$
 $\sqrt{\frac{12}{52}} = \max(k-S_7,0) = \max(k_3-S_0,0) = 52$

$$V_{2} = e^{-rst} (q_3 \sqrt{5} + (1-q_3) \sqrt{4})$$

= $e^{-0 \times 1} (\frac{1}{2} \times 32 + 0) = 16$

$$V_{3}=e^{-r6t}(92V_{7}+(1-97)V_{6})$$

= $e^{-0x(\frac{3}{4}x52+\frac{1}{4}x12)}=42$

$$V_1 = e^{-rot} (q_1 V_3 + (1-q_1) V_2)$$

$$= e^{-ox1} (\frac{2}{3} \times 42 + \frac{1}{3} \times 16) = \frac{100}{3}$$

(c)
$$b = \frac{\sqrt{4-\sqrt{5}}}{5+-5-} = \frac{\sqrt{4-\sqrt{5}}}{54-55} = \frac{0-32}{140-100} = -\frac{4}{5}$$

bny & shares of stock to hedge.