Task - 3

P₁ =
$$\frac{e^{-6}}{1.1 - 0.9} = 0.809$$

P₂ = $\frac{e^{-0.85}}{1.15 - 0.85} = 0.708$
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$$P = \max(170-150, e^{-8t}(91P_1 + (1-91)P_2))$$

 $P = \max(20, 13.349) = 20$

$$q_0 = \frac{e^{8t} - d}{u - d} = \frac{e^{0.06} - 0.8}{1.2 - 0.8} = 0.655$$

$$\frac{1.2}{50} = \frac{1.2}{72} = \frac{72}{72} = \frac{7}{72} = \frac{7}$$

$$P = e^{-8t} (\alpha P_1 + (1-\alpha)P_2) = 8.37$$

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