

Section 3.3 Assigned problems: 1-10.

1. (a) $1200\sqrt{e} \approx 1,978.47\$$ (b) $20 \ln(25/6) \approx 28.542$ years
2. $20 \ln 2 \approx 13.863\%$
3. $5000(-4 + 5e^{3/5}) \approx 25,552.97\$$
4. $\frac{3125}{-1 + e^{9/8}} \approx 1,502.25\$$
5. $20 \ln(16/11) \approx 7.4939$ years
6. $33750(1 - e^{-8/25}) \approx 9,242.47\$$
7. $8000(1 - e^{-12/5})^{-1} \approx 8,798.15\$$
8. $\frac{4800000}{29}(1 - e^{-87/40}) \approx 146,713.13\$$
9. $\frac{20 - e^{6/5}}{224(e - 1)e^{1/5}} \approx 3.5481\%$
10. $\frac{1000}{9}(1259e^{3/5} - 2000) \approx 32,671.95\$$