## Homework 4

## Evan Dragich

## 15 March 2022"

4.4

a

$$\begin{split} NPV &= -1000 \times exp(-0.06 \times 0) - 600 \times exp(-0.06 \times 2) + 1750 \times exp(-0.06 \times 1) \\ &= -1000 - 600 \times 0.8869204 + 1750 \times 0.9417645 \\ &= -1000 - 532.1522 + 1648.088 \\ &= 115.9358 \end{split}$$

b

$$\begin{split} NPV &= -1000 \times 1 - 600 \times 1.04^{-1} \times 1.055^{-2} + 1750 \times 1.04^{-1} \\ &= -1000 - 600 \times 0.9114109 + 1750 \times 0.9615385 \\ &= -1000 - 546.8465 + 1682.692 \\ &= 135.8455 \end{split}$$

=\$135.85

4.5

4.7

4.9

**5.4** 

5.9

5.13