## HEIMADÆMI 2

1.

$$NPV = -C_0 + \frac{A_1}{(1+r)^N} + \frac{A_2}{(1+r)^N} + \frac{A_3}{(1+r)^N}$$

$$= -15 + \frac{40}{(1+82)^1} + \frac{(40-50)}{(1+82)^2} + \frac{20}{(1+82)^3}$$

$$= 72,207$$

Ja, fjärfestingin er arðbær. Þar sem NPV>0, þá uppfyllir fjärfestingin væntingar um ávöxtunarkröfu

2.

$$P_{t} = 62$$

$$P_{0} = 52$$

$$P_{$$

3.

r= 12% Notion ia = 
$$(1 + \frac{r}{M})^M - 1$$
 ag fãum:  
M= 6

ia =  $(1 + \frac{12N}{6})^6 - 1 = \frac{12.6\%}{12.6\%}$ 

4.

$$V = 7\%$$
 $V = 5$ 
 $V = 600 \text{ pis} \cdot (1 + 7\%)^5$ 
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5. Setjum P=100 cg pā er F=115.

$$|1S = 100(1 + \frac{7}{\lambda})^{21}$$

$$\Rightarrow \frac{115}{100} = (1 + \frac{7}{\lambda})^{2}$$

$$\Rightarrow r = \sqrt{\frac{115}{100}} - \lambda$$

$$\Rightarrow r = 0.147 = 14.7\%$$

6.

$$P_{1/2} = 100 \text{ poskr}$$
 $P_2 = 200 \text{ poskr}$ 
 $N_{uz} = 3/2$ 
 $N_2 = 0$ 
 $T = 10\%$ 

$$F = 100 \text{ būskr} \cdot (1+10)/3 + 200 \text{ būskr} \cdot$$