1. $\text{price} = \sum_{i=1}^{25\times 2} \frac{50}{(1+1\%)^i} + \frac{1000}{(1+1\%)^{50}} \approx 2567.84$

2. $\text{perpetuity} = \frac{6.25}{3.5\%} = 178.57$

3. $FV = 1.000.000 \times (1+\frac{4\%}{12})^{120} + \sum_{i=0}^{119} 14000 \times (1+\frac{4\%}{12})^i$

$= 3.552,329.95$

4. $D = \$10 \quad r = 12\% \quad g = 3\%$

$\text{price} = \frac{D}{r-g} = \$111.11$

5. Present value of first 5 cash flows.

$PVGA = \frac{1000}{r-g}\left[1 - \frac{(1+g)^N}{(1+r)^N}\right] = 5477.02$

Present value of following 25 cash flows.

$PVA = \frac{1000\times 1.1^5}{r}\left[1 - \frac{1}{(1+r)^{25}}\right] \Big/ (1+r)^5$

$= 22349.03$

Total present value = $5477.02 + 22349.03 = 27826.05$

6. $\text{value} = \frac{10,000}{r}\left(1 - \frac{1}{(1+r)^{25}}\right) \Big/ (1+r)^{20}$

$= 96412.38$

7. $893.22 = \sum_{i=1}^{20} \frac{60}{(1+r)^i} + \frac{1000}{(1+r)^{20}}$

$r = 7\%$