



a) ~~$A = \$1000 \left(1 + \frac{6}{100}\right)^n$~~
 ~~$= 1000(1.06)^n - M$~~

Ag. $A = P \left(1 + \frac{r}{100}\right)^n - 72$
 $= 1000 \left(1 + \frac{6}{100}\right)^n - 72$
 $= 1060 - 72$
 $= \$988.$

ii.

$B_n = 1000 \left(1 + \frac{r}{100}\right)^n$
 $= 1000 \left(1 + \frac{6}{100}\right)^n$
 $= 1000(1.06)^n$
 $= 1200 - 200(1.06)^n.$

iii) $B_{10} = 1200 - 200 \times (1.06)^{10}$
 $= 1200 - 200(1.79085)$
 $= 1200 - 358.169$
 $= \$841.83$

b)