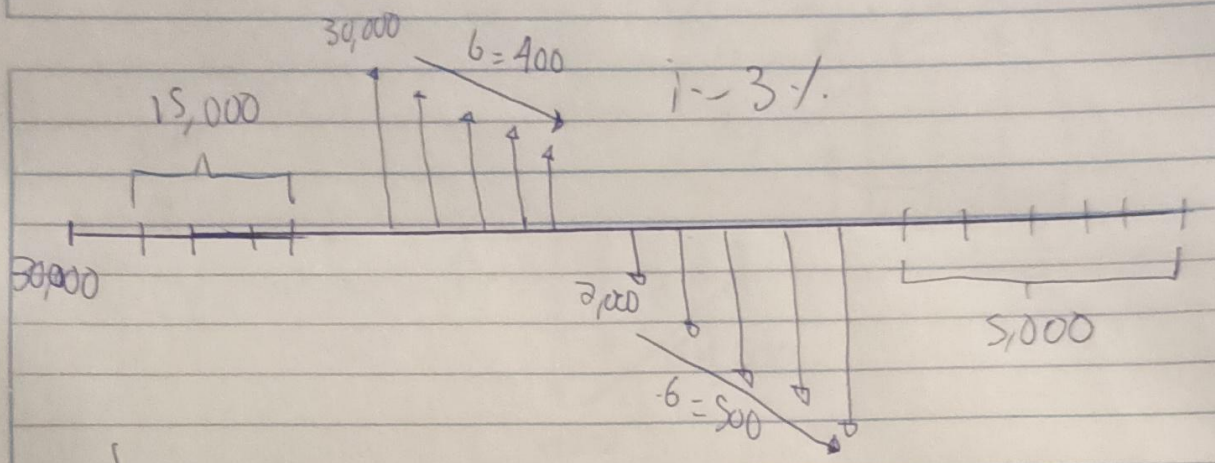



$P = \$30,000$

$PTG = 7,000\left[\frac{1-(1.030)^{-5}}{0.030}\right] + \frac{5000}{0.030}\left[\frac{1-(1.03)^{-5}-5}{0.030\ (1.030)^5}\right] =$

$= 36,502.33$

$PTG = \left(\frac{36,502.33}{(1.030)^4}\right) = \$27,475.44$

$P = 5,006\left[\frac{1-(1.030)^{-6}}{0.030}\right]\left(\frac{1}{(1.030)^{14}}\right) = \$17,907.0086$

$P = 15,000\left[\frac{1-(1.030)^{-4}}{0.030}\right] = \$55,756.47$

$PTG = 3000\left[\frac{1-(1.030)^{-5}}{0.030}\right] - \frac{400}{0.030}\left[\frac{1-(1.030)^{-5}}{0.030} - \frac{5}{(1.030)^5}\right]$

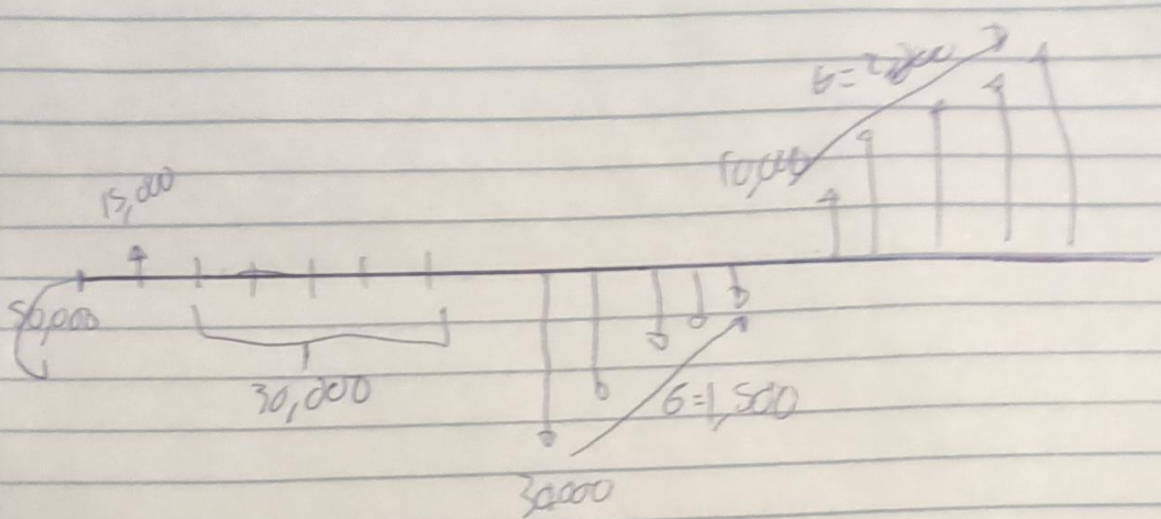
$PTG = 13,739.12 - 13,333.33(4.5797 - 4.3130)$

$PTG = 13,393.52$

$PTG = \left(\frac{13,393.52}{(1.030)^4}\right) = \$11897$

P. Ingresos $= \$85,882.44 - 69,804.47$

P. Total $= 11,078.52$




$P = \$50{,}000$

$P = 30{,}000\left[\frac{1-(1.023)^{-5}}{0.023}\right]\left(\frac{1}{1.023}\right) = \$137{,}024.24$

$PTG = 30{,}000\left[\frac{1-(1.023)^{-5}}{0.023}\right] - \frac{1{,}500}{0.023}\left[\frac{1-(1.023)^{-5}}{0.023} - \frac{5}{(1.023)^5}\right] =$

$= \$126{,}481.51$

$PTG = \frac{126{,}481.51}{(1.023)^6} = \$110{,}350.22$

$P = \frac{15{,}000}{(1.023)^1} = \$14{,}662.75$

$PTG = 10{,}000\left[\frac{1-(1.023)^{-5}}{0.023}\right] + \frac{2{,}000}{0.023}\left[\frac{1-(1.023)^{-5}}{0.023} - \frac{5}{(1.023)^5}\right] -$

$= 64{,}992.83$

$PTG = \frac{64{,}992.83}{(1.023)^{11}} = \$50{,}609.66$

P. Ingresos $= \$297{,}379.46$ − P egreso $= 65{,}272.41$

P. Total $= \$232{,}107.05$