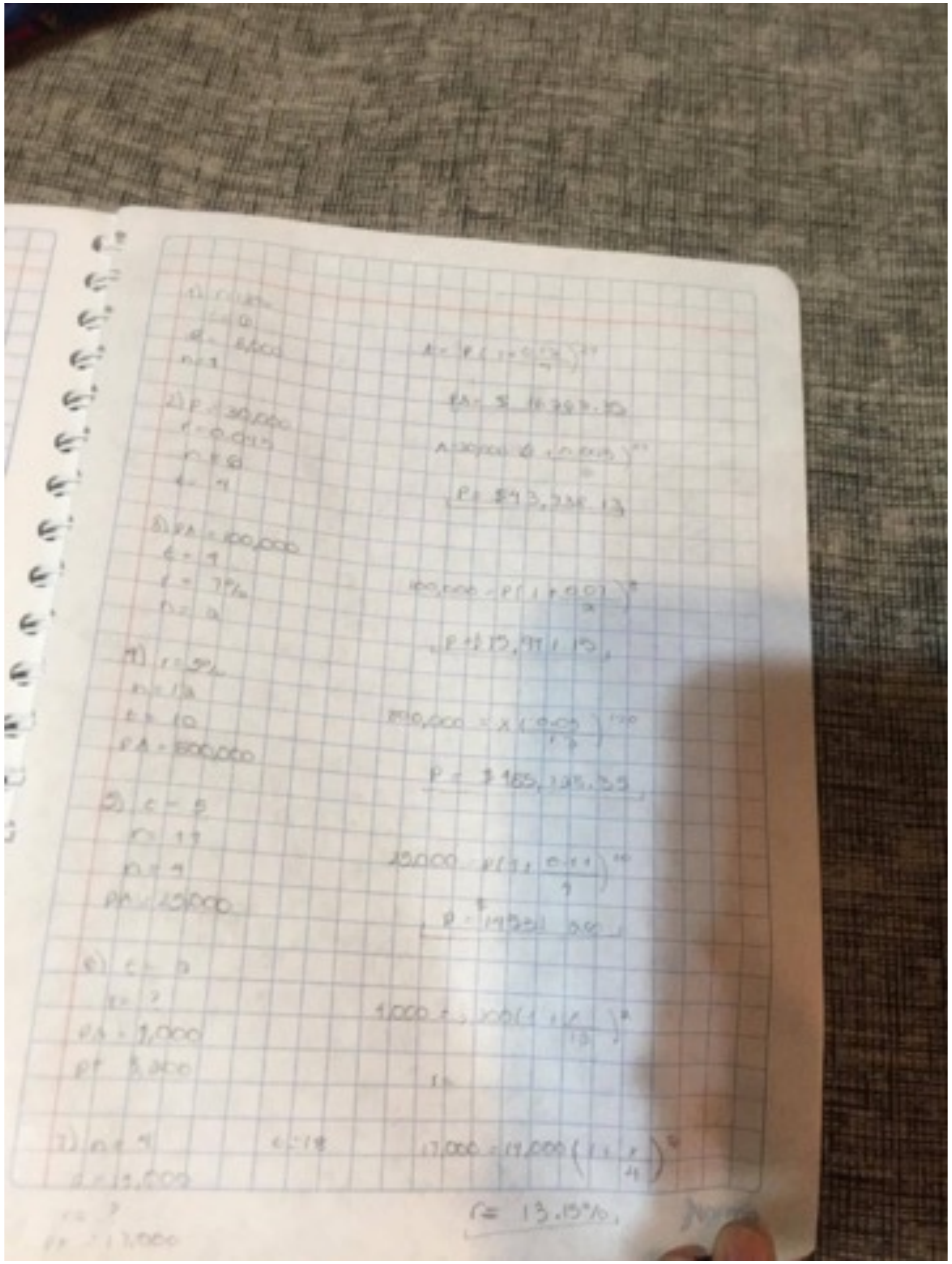


1) r = 12%
t = 2
P = 8,000
n = 4

$A = P\left(1+\frac{0.12}{4}\right)^{8}$

PA = $ 10,134.15

2) P = 30,000
r = 0.045
n = 6
t = 4

$A = 30000\left(1+\frac{0.045}{6}\right)^{24}$

P = $43,336.13

3) PA = 100,000
t = 4
r = 7%
n = 2

$100{,}000 = P\left(1+\frac{0.07}{2}\right)^{8}$

P = $75,941.15

4) r = 5%
n = 12
t = 10
PA = 300,000

$300{,}000 = x\left(1+\frac{0.05}{12}\right)^{120}$

P = $185,285.55

5) r = 8
n = 17
n = 4
PA = 25,000

$25{,}000 = P\left(1+\frac{0.11}{4}\right)^{68}$

P = 14,931.06

6) t = 3
n = 2
PA = 1,000
P = 3,300

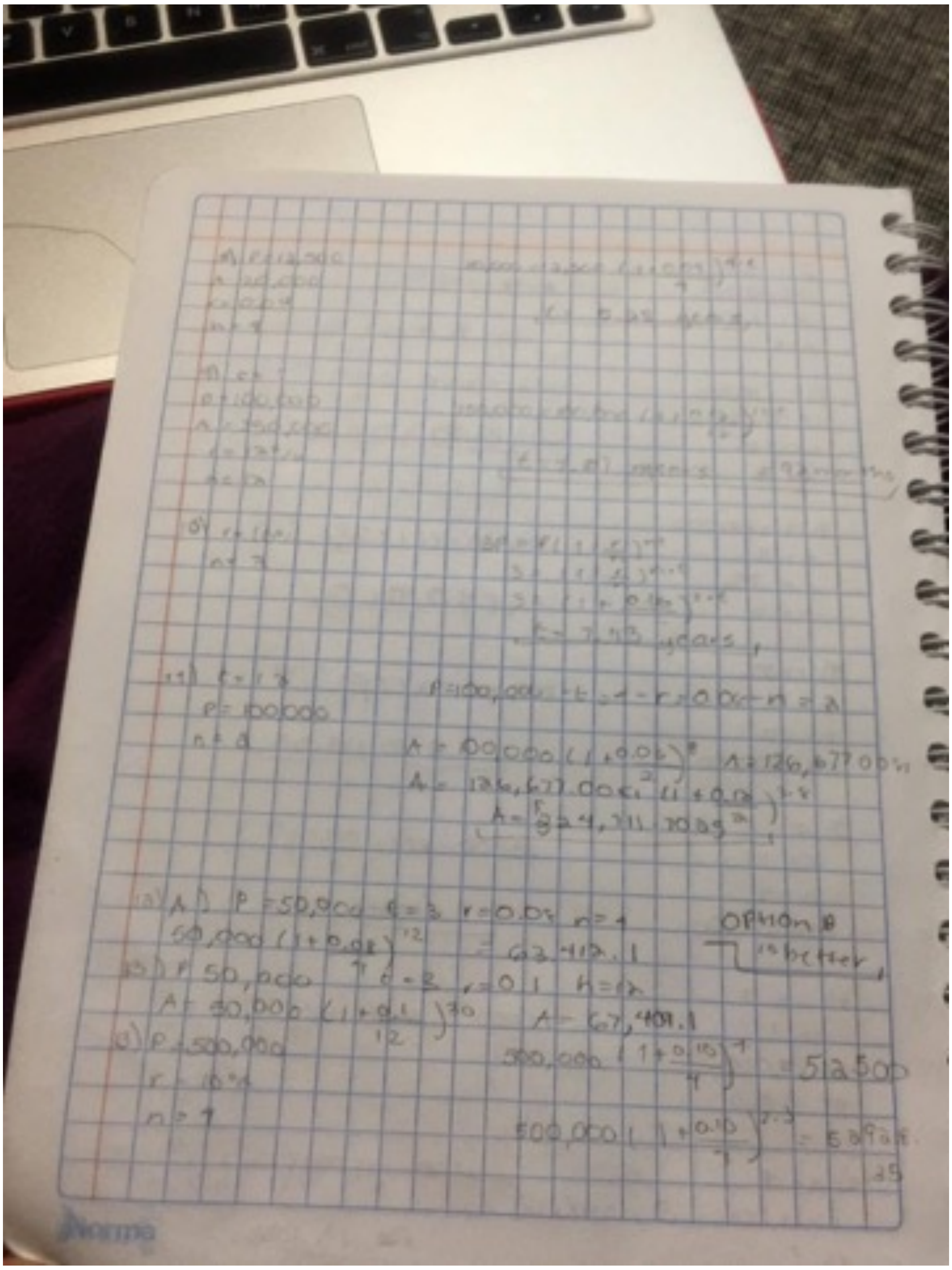
$1{,}000 = 3{,}300\left(1+\frac{r}{12}\right)^{8}$

1

7) n = 4 t = 18
P = 14,000
r = ?
PA = 17,000

$17{,}000 = 14{,}000\left(1+\frac{r}{4}\right)^{8}$

r = 13.15%



A) P=12,500 [illegible]

A=20,000

r=0.04

n=4

$20{,}000 = 12{,}500\left(1+\frac{0.04}{4}\right)^{4t}$

t= [illegible] years

B) r= [illegible]

P=100,000

A=150,000

r=12%

n=12

$150{,}000 = 100{,}000\left(1+\frac{0.12}{12}\right)^{12t}$

t= [illegible] months [illegible] months

9) r=12%

n=4

$3P = P\left(1+\frac{r}{n}\right)^{nt}$

$3 = \left(1+\frac{r}{n}\right)^{4t}$

$3 = \left(1+\frac{0.12}{4}\right)^{4t}$

t= 7.43 years

11) t=4

P=100,000

n=2

P=100,000 - t=4 - r=0.06 - n=2

$A = 100{,}000\left(1+\frac{0.06}{2}\right)^{8}$ A=126,677.00

$A = 126{,}677.00\left(1+\frac{0.12}{2}\right)^{2\cdot 8}$

A= $324,711.70

12) A) P=50,000 t=3 r=0.08 n=4

$50{,}000\left(1+\frac{0.08}{4}\right)^{12}$ = 63,412.1

Option B is better

13) B) P=50,000 t=3 r=0.1 n=12

$A = 50{,}000\left(1+\frac{0.1}{12}\right)^{36}$

A= 67,409.1

C) P=500,000

r=10%

n=4

$500{,}000\left(1+\frac{0.10}{4}\right)^{1}$ = 512,500

$500{,}000\left(1+\frac{0.10}{4}\right)^{[illegible]}$ = [illegible]