

Credit Cards

EX 1: You have \$4000 of credit card debt that you would like to pay off in the next 3 years. You will not make any additional charges on your card during that time. The APR on your card is 21%.

P=
$$\frac{1000}{100}$$
, A PR= 0.21, N=12, Y=3
a) What will your monthly payments be?

PMT= $\frac{1000}{12}$
PMT= $\frac{P \cdot (\frac{APR}{n})}{[1 - (1 + \frac{APR}{n})^{(-nY)}]}$

b) How much will you pay during those 3 years?

c) What is the overall percentage you paid in interest?

EX 2: If you put \$3000 on a credit card with 21% interest rate at age 20 and just make minimum payments of \$60 each month, how much will you still owe at age 25?

PMT=60, n=12,
$$Y=5$$
, PMT = $\frac{P \cdot (\frac{APR}{n})}{[1 \cdot (1 + \frac{APR}{n})^{(-nY)}]}$
 $60 = P\left(\frac{0.21}{12}\right)$ $O.0175 = 0.21$
 $1 - \left(1 + \frac{0.21}{12}\right)^{-12(5)}$
 $0.0175 = 0.21$
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 $0.0175 = 0.21$
Pay off this amt.