1. Bob put $\$ 900$ into an account that has a simple interest rate of $8.7 \%$ per year. At the end of 5 years, how much interest will have earned?
Solve by either method:

$$
\begin{array}{cc}
\mathrm{I}=\mathrm{Prt} & \mathrm{~A}=\mathrm{P}(1+\mathrm{rt}) \\
\mathrm{I}=900 * .087 * 5 & \mathrm{~A}=900(1+.087 * 5) \\
\mathrm{I}=391.5 & \mathrm{~A}=1291.5 \\
& \mathrm{I}=\mathrm{A}-\mathrm{P} \\
& \mathrm{I}=1291.5-900
\end{array}
$$

Answer: $\$ 391.50$
2. What is the effective yield of an account that pay interest at a rate of $8 \%$ per year compounded quarterly?
$\operatorname{eff}(8,4)=8.243 \%$
3. Anthony invested a sum of money 3 years ago in an account that paid interest at the rate of $6 \% /$ year compounded monthly. His investment is now worth $\$ 19,000$. How much did he origionally invest?
$\mathrm{N}=12^{*} 3$
$\mathrm{I}=6$
$\mathrm{PV}=$ solve for this
Pmt $=0$
$\mathrm{Fv}=19000$
$\mathrm{P} / \mathrm{y}=12$
$\mathrm{C} / \mathrm{y}=12$

Answer: $\$ 15877.25$
4. Susan deposited $\$ 14,000$ into an account. The account earns interest at a rate of $4.2 \%$ per year compounded quarterly. Find the ballance of the account if she has withdraws $\$ 350$ every quarter for 7 years.
$\mathrm{N}=7 * 4$
$\mathrm{I}=4.2$
$\mathrm{PV}=-14000$
Pmt $=350$
$\mathrm{Fv}=$ solve for this
$P / y=4$
$C / y=4$
Answer: $\$ 7431.91$

