1. Bob put $\$ 700$ into an account that has a simple interest rate of $12.3 \%$ per year. At the end of 9 years, how much interest will have earned?
Solve by either method:

$$
\begin{array}{cc}
\mathrm{I}=\mathrm{Prt} & \mathrm{~A}=\mathrm{P}(1+\mathrm{rt}) \\
\mathrm{I}=700 * .123 * 9 & \mathrm{~A}=700(1+.123 * 9) \\
\mathrm{I}=774.9 & \mathrm{~A}=1474.9 \\
& \mathrm{I}=\mathrm{A}-\mathrm{P} \\
& \mathrm{I}=1474.9-700
\end{array}
$$

Answer: $\$ 774.90$
2. What is the effective yield of an account that pay interest at a rate of $7 \%$ per year compounded monthly?
$\operatorname{eff}(7,12)=7.229 \%$
3. Anthony invested a sum of money 5 years ago in an account that paid interest at the rate of $8 \% /$ year compounded quarterly. His investment is now worth $\$ 22,000$. How much did he origionally invest?
$\mathrm{N}=5^{*} 4$
$\mathrm{I}=8$
$\mathrm{PV}=$ solve for this
Pmt= 0
$\mathrm{Fv}=22000$
$\mathrm{P} / \mathrm{y}=4$
$C / y=4$

Answer: $\$ 14,805.37$
4. Susan deposited $\$ 8,000$ into an account. The account earns interest at a rate of $6.5 \%$ per year compounded monthly. Find the ballance of the account if she has withdraws $\$ 125$ every month for 5 years.
$\mathrm{N}=5 * 12$
$\mathrm{I}=6.5$
$\mathrm{PV}=-8000$
Pmt $=125$
$\mathrm{Fv}=$ solve for this
$\mathrm{P} / \mathrm{y}=12$
$\mathrm{C} / \mathrm{y}=12$
Answer: $\$ 2,228.29$

