1) The temperature is $80^{\circ} \mathrm{F}$, find the temperature in Celsius given the formula ${ }^{\circ} \mathrm{C}=\frac{5}{9}\left({ }^{\circ} \mathrm{F}-32\right)$.
2) The temperature is $50^{\circ} \mathrm{C}$, find the temperature in Fahrenheit given the formula ${ }^{\circ} \mathrm{F}=\frac{9}{5}^{\circ} \mathrm{C}+32$
3) Find A if you were given $\mathrm{P}=200, \mathrm{r}=.35, \mathrm{n}=12$, and $\mathrm{t}=8$, given the formula: $A=P\left(1+\frac{r}{n}\right)^{n t}$
4) Find c if $\mathrm{a}=5$ and $\mathrm{b}=8$ for the formula $c=\sqrt{a^{2}+b^{2}}$.
5) Solve for F if given $G=20, m_{1}=18, m_{2}=12$, and $d=-4$ for the formula: $F=G \frac{m_{1} m_{2}}{d^{2}}$
6) Given the formula: $X_{t+1}=K \cdot x_{t}\left(1-x_{t}\right)$, find $X_{t+1}$ if $x_{t}=15$ and $K=-12$.
7) Given that $\mathrm{a}=2, \mathrm{~b}=-8, \mathrm{c}=8$, use the following formula to simplify: $\quad y=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a}$
8) Given that $\mathrm{a}=-2, \mathrm{~b}=4$, and $\mathrm{c}=-4$, use the following formula to simplify: $\quad y=\frac{-b}{2 a} \pm \frac{\sqrt{b^{2}-4 a c}}{2 a}$
