Formulae:

1. If $ax^2+bx+x=0$ then

$$x=\frac{-b\pm\sqrt{b^2-4ac}}{2a}$$

2. If $f(x)=ax^2+bx+c$ then

$$\left(\frac{-b}{2a},f\left(\frac{-b}{2a}\right)\right)$$

or

$$h=\frac{-b}{2a}\quad k=\frac{4ac-b^2}{4a}$$

3.

$$S=P+I=P+Prt=P(1+rt)$$

$$S=P\left(1+\frac{r}{m}\right)^{mt}=P(1+i)^n$$

or

$$FV=PV\left(1+\frac{j}{m}\right)^{mt}=PV(1+i)^n$$

4.

$$S=R\left[\frac{(1+i)^n-1}{i}\right]=R\left[\frac{(1+\frac{r}{m})^{mt}-1}{\frac{r}{m}}\right]$$

or

$$S=R\left[\frac{(1+i)^n-1}{i}\right]=R\left[\frac{(1+\frac{j}{m})^{mt}-1}{\frac{j}{m}}\right]$$

5.

$$A=R\left[\frac{1-(1+i)^{-n}}{i}\right]=R\left[\frac{1-(1+\frac{r}{m})^{-mt}}{\frac{r}{m}}\right]$$

or

$$A=R\left[\frac{1-(1+i)^{-n}}{i}\right]=R\left[\frac{1-(1+\frac{j}{m})^{-mt}}{\frac{j}{m}}\right]$$