INSTITUTO TECNOLOGICO DE SONORA
DEPARTAMENTO DE INGENIERIA INDUSTRIAL
FORMULARIO DE INGENIERIA ECONOMICA

$$F = P(1+i)^n \qquad F = P(F/P,i,n)$$

$$P = F\left[\frac{1}{(1+i)^n}\right] \qquad P = F(P/F,i,n)$$

$$A = P\left[\frac{i(1+i)^n}{(1+i)^n - 1}\right] \qquad A = P(A/P,i,n)$$

$$P = A\left[\frac{(1+i)^n - 1}{i(1+i)^n}\right] \qquad P = A(P/A,i,n)$$

$$F = A\left[\frac{(1+i)^n - 1}{i}\right] \qquad F = A(F/A,i,n)$$

$$A = F\left[\frac{i}{(1+i)^n - 1}\right] \qquad A = F(A/F,i,n)$$

$$P = G\left[\frac{1}{i}\right]\left[\frac{(1+i)^n - 1}{i} - n\right]\left[\frac{1}{(1+i)^n}\right] \qquad P = G(P/G,i,n)$$

$$F = G\left[\frac{1}{i}\right]\left[\frac{(1+i)^n - 1}{i} - n\right] \qquad F = G(F/G,i,n)$$

$$A = G\left[\frac{1}{i} - \frac{n}{(1+i)^n - 1}\right] \qquad A = G(A/G,i,n)$$

$$P = A\left[\frac{1 - \dfrac{(1+j)^n}{(1+i)^n}}{i-j}\right] \quad \text{Si } i \neq j \qquad P = A(P/A,i,j,n)$$

$$P = A\left[\frac{n}{1+i}\right] \quad \text{Si } i = j \qquad P = A(P/A,i,j,n)$$

$$F = P + Pni$$

$$I = F - P$$

$$i = \left(\frac{F-P}{P}\right) * 100$$

$$i_{\text{por período}} = \frac{r}{m}$$

$$i = \left[\left(1 + \frac{r}{m}\right)^m - 1\right] * 100$$

$$i = \left(e^{r(n)} - 1\right) * 100$$

$$D_t = \frac{1}{n}(P - Vs)$$

$$D = \left[\frac{n - (t-1)}{n(n+1)/2}\right](P - Vs)$$

$$i' = i + f + if$$

$$y = y_1 + (x - x_1)\left(\frac{y_2 - y_1}{x_2 - x_1}\right)$$