

You May Detach this sheet

Foundations of Mathematics 11

FORMULA SHEET

• Finance...

Simple Interest

$$\begin{aligned} I &= Prt \\ A &= P + I \\ A &= P + Prt \\ A &= P(1 + rt) \end{aligned}$$

Compound Interest

$$\begin{aligned} A &= P \left(1 + \frac{r}{n} \right)^{nt} \\ I &= A - P \end{aligned}$$

Rule of 72 and Rate of Return

$$\begin{aligned} \text{Doubling Time} &= \frac{72}{\text{Rate}} \\ \text{ROR} &= \frac{\$ \text{earn}}{\$ \text{invested}} \times 100\% \end{aligned}$$

Present Value

$$P = \frac{A}{\left(1 + \frac{r}{n} \right)^{nt}}$$

TVM-Solver

N =
I % =
PV =
PMT =
FV =
P / Y =
C / Y =
PMT : END BEGIN

• Angles and Their Properties...

$$S = 180^\circ(n - 2)$$

• Trigonometry...

$$\sin \theta = \frac{\text{opp}}{\text{hyp}} \quad \cos \theta = \frac{\text{adj}}{\text{hyp}} \quad \tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$c^2 = a^2 + b^2 \quad \text{OR} \quad a^2 = c^2 - b^2$$

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\text{altitude} = b \sin A$$