$$A = \pi r^2$$

$$(x + a)^n = \sum_{k=0}^{n} \binom{n}{k} x^k a^{n-k}$$

$$(1 + x)^n = 1 + \frac{nx}{1!} + \frac{n(n-1)x^2}{2!} + \cdots$$

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$

$$a^2 + b^2 = c^2$$

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

$$e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \cdots, \qquad -\infty < x < \infty$$

$$\sin \alpha \pm \sin \beta = 2 \sin \frac{1}{2}(\alpha \pm \beta) \cos \frac{1}{2}(\alpha \mp \beta)$$

$$\cos \alpha + \cos \beta = 2 \cos \frac{1}{2}(\alpha + \beta) \cos \frac{1}{2}(\alpha - \beta)$$

$$\mathbf{r} = \frac{1}{2}\mathbf{a}t^2 + \mathbf{v_0}t + \mathbf{r_0}$$

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

$$\exists x \left(\mathrm{Person}(x) \wedge \forall y \left(\mathrm{Time}(y) \rightarrow \mathrm{Happy}(x, y) \right) \right)$$

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \left[\int_{-\infty}^{\infty} e^{-x^2} dx \int_{-\infty}^{\infty} e^{-y^2} dy\right]^{1/2}$$
$$= \left[\int_{0}^{2\pi} \int_{0}^{\infty} e^{-r^2} r \, dr \, d\theta\right]^{1/2}$$
$$= \left[\pi \int_{0}^{\infty} e^{-u} du\right]^{1/2}$$
$$= \sqrt{\pi}$$

$$\frac{1}{2\pi} \int_{0}^{2\pi} \frac{d\theta}{a + b \sin\theta} = \frac{1}{\sqrt{a^2 - b^2}}$$

$$\begin{pmatrix} U(t) \\ V(t) \\ W(t) \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos Rt & -\sin Rt \\ 0 & \sin Rt & \cos Rt \end{pmatrix} \begin{pmatrix} U(0) \\ V(0) \\ W(0) \end{pmatrix}$$

$$|x| = \begin{cases} -x, & x < 0 \\ x, & x \geq 0 \end{cases}$$

$$a(b + c) = ab + ac$$

$$a^n a^m = a^{n+m}$$

$$\sqrt[n]{a^n} = \begin{cases} a, & n \text{ odd} \\ |a|, & n \text{ even} \end{cases}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{a}{b} \times \frac{c}{d} = \frac{ac}{bd}$$

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CHART

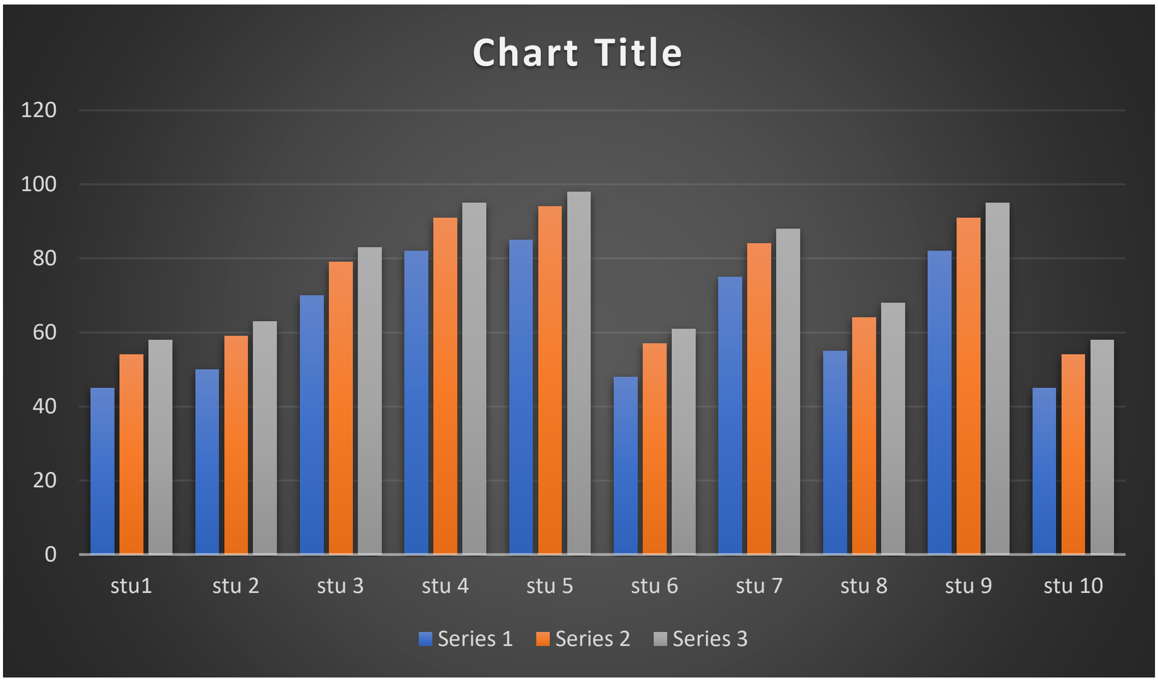
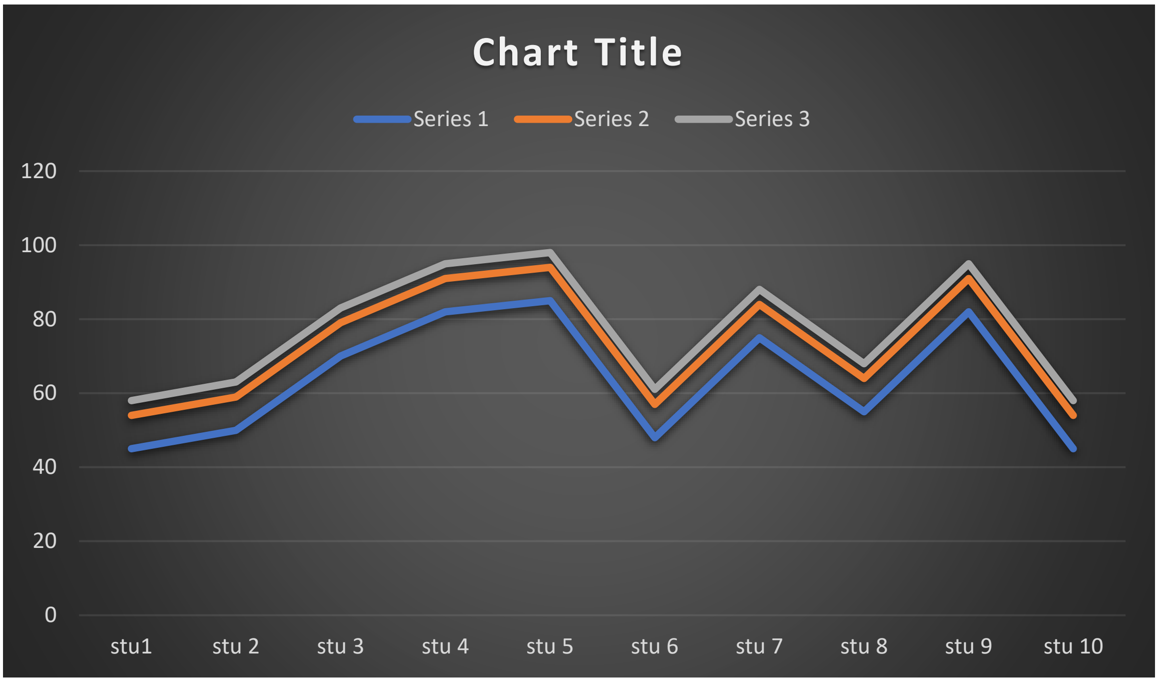


CHART ❷



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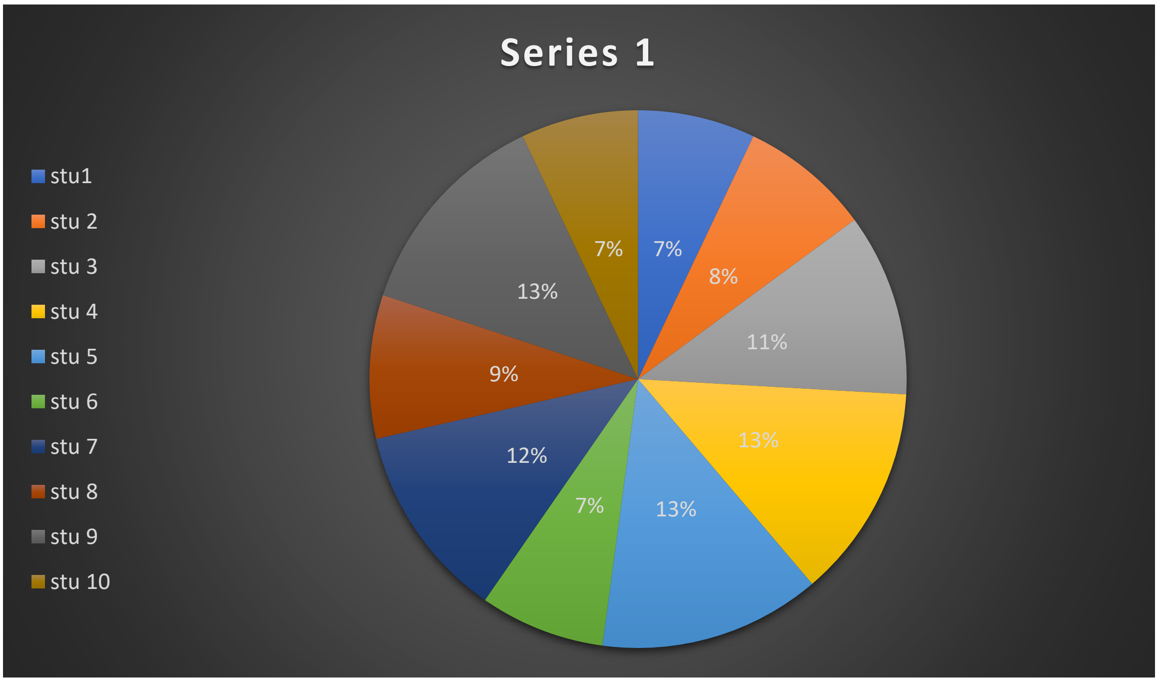

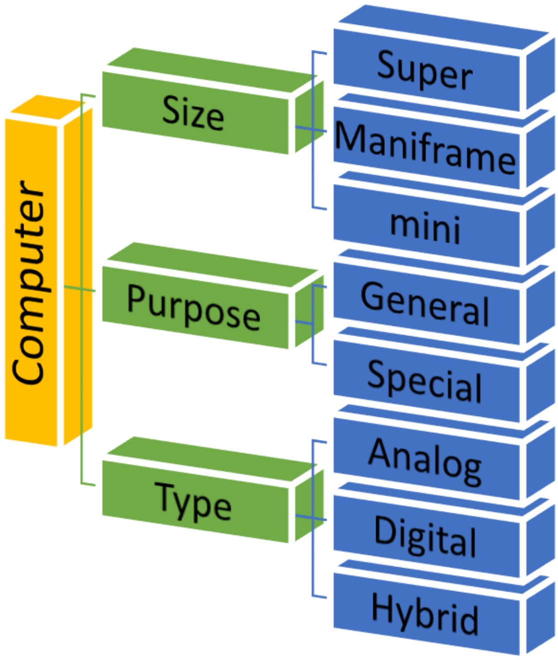
Computer
Size
Purpose
Type
Super
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General
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Analog
Digital
Hybrid