Families of Functions

Linear

$$f\left(x\right)=mx+b$$



Quadratic

$$f\left(x\right)=ax^{2}+bx+c $$



Absolute Value

$$f\left(x\right)=|x|$$



Cubic

$$f\left(x\right)=ax^{3}+bx^{2}+cx+d$$



Rational

 $f\left(x\right)=\frac{1}{x}$



Radical

 $f\left(x\right)=\sqrt{x}$



Logarithmic

 $f\left(x\right)=log\_{a}x$



Exponential

 $f\left(x\right)=2^{x}$



Piecewise Function



Tangent

 $f\left(θ\right)=\tan(θ)$



Sine

 $f\left(θ\right)=\sin(θ)$

Cosine

 $f\left(θ\right)=\cos(θ)$