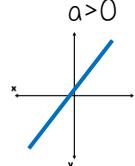
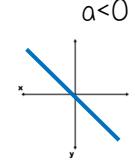
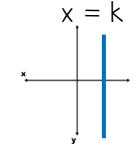
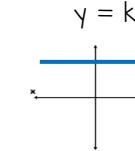
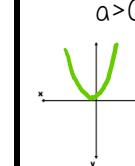
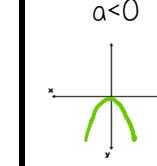
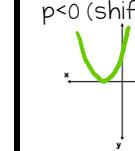
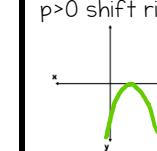
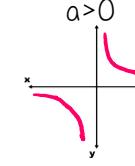
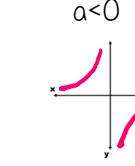
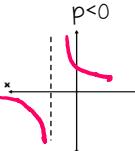
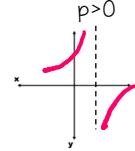
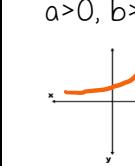
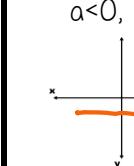
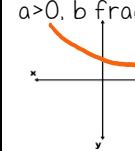
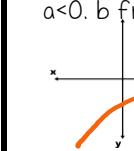
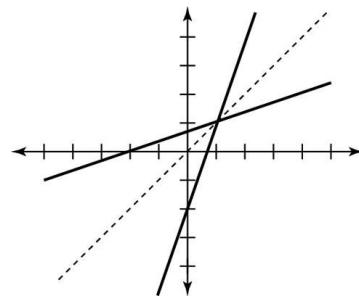
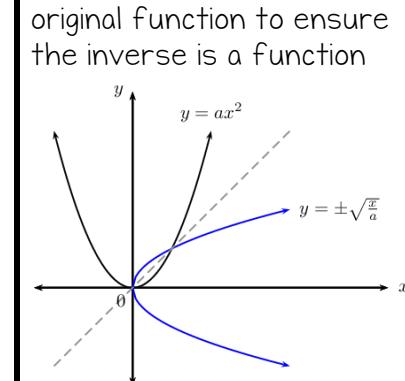


# GR 11 FUNCTIONS SUMMARY SHEET

	Linear	Parabola	Hyperbola	Exponential
Equation	$y = ax + q$	$y = ax^2 + bx + c$ $y = a(x-p)^2 + q$	$y = \frac{a}{x-p} + q$	$y = a.b^x + q$ b must be +
Shape	   	   	   	   
Domain	$x \in \mathbb{R}$	$x \in \mathbb{R}$	$x \in \mathbb{R}$	$x \in \mathbb{R}$
Range	$y \in \mathbb{R}$	$y \in \mathbb{R}$	$y \in [q; \infty)$	$y \in (-\infty; q]$
Notes	$a$ = gradient $q$ = $y$ -intercept	$(p, q)$ is turning point $x = -\frac{b}{2a}$ or $\frac{dy}{dx} = 0$	$p$ is vertical asymptote $q$ is horizontal asymptote	$q$ is horizontal asymptote
Inverse $f^{-1}(x)$	Reflection about line $y = x$ (switch $x$ and $y$ )			
		Must restrict domain of original function to ensure the inverse is a function 		Log function ( $y = \log_a x$ ) 