

### EXERCISES on HYPERBOLA

Complete the following table and sketch the graph of each of the hyperbola:

	GENERAL EQUATION	STANDARD EQUATION	AXIS	CENTER	VERTICES	EXTREMITIES/CO-VERTICES	FOCI	DIRECTRICES	ASYMPTOTES	ECCENTRICITY
1		$x^2 - y^2 = 1$								
2				(0, 0)	(4, 0) ( , )	(0, 2) ( , )				
3							(0, 10) ( , )		$y = \pm \frac{4}{3}x$	
4	$9x^2 - 16y^2 + 36x + 32y + 164 = 0$									
5					(0, 5) ( , )	(12, 0) ( , )	(-1, 5) ( , )			
6			$x = 2$					$y = 2$ $y = 0$		2