## Solving Differential Equations and Sketching Slope Fields/Direction Fields

Differential Equation				Solve the Separable Differential Equation									
$\frac{dy}{dx} = \frac{x^2}{y^2}$													
Table				Graph									
Complete the table of values for $-3 \le x \le 3$ and $-3 \le y \le 3$				Graph the Slope Field/Direction Field for the values in the table.									
	у 	dy/dx		Use yo specifi $x = 0$ , Sketch NOTE contin	bur gratic equations $y = 2$ . The the equation of the equatio	aphing ation quatic soluti	g calc that sa on abc	y +1- 1 1- ulator atisfies	to gra s the i	aph the nitial	e slop condi	e field tion th	I and the nat when