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

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| --- | --- |
| Differential Equation | Solve the Separable Differential Equation |
|  |  |
| Table | Graph |
| Complete the table of values for -3< x < 3 and -3 < y < 3   |  |  |  | | --- | --- | --- | | x | y | dy/dx | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | | Graph the Slope Field/Direction Field for the values in the table.  C:\Users\Carol\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Word\2007LINK-Diff Eq 1.jpg  Use your graphing calculator to graph the slope field and the specific equation that satisfies the initial condition that when x = 0, y = 2.  Sketch the equation above.  NOTE: The solution to a differential equation must be a continuous function. |