University of Bahrain Department of Mathematics MATHS101: Calculus I Dr. Abdulla Eid



## Worksheet: Implicit Differentiation

Name:		
- 1011101		
	Name:	Name:

1. Find  $\frac{dy}{dx}$  for xy = 1 by two ways, implicit and explicit.

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2. Find y' for the following:

1. 
$$x + e^y = y + e^x$$
.

3. Find an equation of the normal line at (3,3) for the folium of Descarte' curve given by  $x^3 + y^3 = 6xy$ .

4. Find y'' for  $\sin y + \cos x = 1$ .

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