

Mathematics Department
2020/2021

Name:	Implicit differentiations	Date
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Q1: - $y^2 = 3x$

a) $\frac{dy}{dx} = \frac{3}{2}$	b) $\frac{dy}{dx} = \frac{3}{2y}$	c) $\frac{dy}{dx} = 3 - 2y$	d) $\frac{dy}{dx} = \frac{2y}{3}$
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Q2: - $\sin y = x^2$

a) $\frac{dy}{dx} = 2x - \cos y$	b) $\frac{dy}{dx} = \cos y - 2x$
c) $\frac{dy}{dx} = \frac{2x}{\cos y}$	d) $\frac{dy}{dx} = \frac{\cos y}{2x}$