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| Name: | <b>Implicit differentiations</b> | 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) $\frac{dy}{dx} = \frac{2y}{3}$ |
|----------------------------------|-----------------------------------|-----------------------------|-----------------------------------|

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) $\frac{dy}{dx} = \frac{\cos y}{2x}$ |