**King Fahd University of Petroleum and Minerals**
**Department of Mathematical Science**
**Math 102(01) Term 0025 Quizt#1**

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**Name: _____ ID#:_____**

**Q2.** Use definition of $x_k^*$ as the **right endpoint** to find the area under the curve

$y = x^2$ over the interval $[1, 3]$

**Q2.** Find an equation of the curve that satisfies conditions. At each point $(x, y)$ on the curve the slope is

$\frac{1}{\sqrt{x}\,(x+1)}$ ; the curve passes the point $\left(1, \frac{\pi}{3}\right)$.