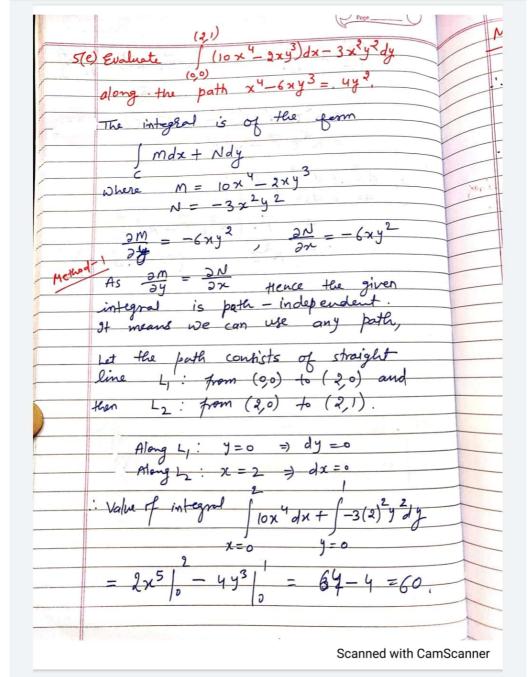


Scanned with CamScanner

$$\frac{d^{3}\vec{R}}{ds^{2}} \times \frac{d^{3}\vec{R}}{ds^{2}} = \frac{\vec{K} \cdot \vec{N} \times \left[\vec{K} \cdot (\vec{B} \cdot \vec{T} - \vec{K} \cdot \vec{T}) + \frac{d\vec{K}}{ds} \cdot \vec{N}\right]}{ds^{2}}$$

$$= \vec{K}^{2} \cdot \vec{T} \cdot \vec{K} \cdot \vec{B} \cdot \vec{K} \cdot$$

Scanned with CamScanner



Method-2: As $\frac{2m}{2y} = \frac{2N}{2x}$ i. $(10 \times 1 - 2 \times y^3) dx - (3 \times 2 \cdot y^2) dy$ is

an exact differential of $(3 \times 5 - x^2 \cdot y^3)$ i. $(10 \times 1 - 2 \times y^3) dx - 3x^2 y^2 dy$ (90)

(90)

(1,1)

= $(2x^5 - x^2 \cdot y^3)$ (90)

= $(4x^5 - x^2 \cdot y^3)$ (90)