

سرسره نمبر: (IUL)220-HMS/1/2026/79

وَجِئْزُكُورْ

$\frac{1}{2} \cdot \frac{1}{3} = \frac{1}{6}$

[illegible]

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1. $\frac{1}{x} \frac{d}{dx} \left(x^2 \frac{dy}{dx} \right) + \frac{1}{x} \frac{dy}{dx} = 0$

$$\frac{1}{x} \left(2x \frac{dy}{dx} + x^2 \frac{d^2y}{dx^2} \right) + \frac{1}{x} \frac{dy}{dx} = 0$$

$$2 \frac{dy}{dx} + x \frac{d^2y}{dx^2} + \frac{dy}{dx} = 0$$

$$x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} = 0$$
2. $\frac{1}{x} \frac{d}{dx} \left(x^2 \frac{dy}{dx} \right) + \frac{1}{x} \frac{dy}{dx} = 0$

$$\frac{1}{x} \left(2x \frac{dy}{dx} + x^2 \frac{d^2y}{dx^2} \right) + \frac{1}{x} \frac{dy}{dx} = 0$$

$$2 \frac{dy}{dx} + x \frac{d^2y}{dx^2} + \frac{dy}{dx} = 0$$

$$x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} = 0$$
3. $\frac{1}{x} \frac{d}{dx} \left(x^2 \frac{dy}{dx} \right) + \frac{1}{x} \frac{dy}{dx} = 0$

$$\frac{1}{x} \left(2x \frac{dy}{dx} + x^2 \frac{d^2y}{dx^2} \right) + \frac{1}{x} \frac{dy}{dx} = 0$$

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$$x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} = 0$$
4. $\frac{1}{x} \frac{d}{dx} \left(x^2 \frac{dy}{dx} \right) + \frac{1}{x} \frac{dy}{dx} = 0$

$$\frac{1}{x} \left(2x \frac{dy}{dx} + x^2 \frac{d^2y}{dx^2} \right) + \frac{1}{x} \frac{dy}{dx} = 0$$

$$2 \frac{dy}{dx} + x \frac{d^2y}{dx^2} + \frac{dy}{dx} = 0$$

$$x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} = 0$$
5. $\frac{1}{x} \frac{d}{dx} \left(x^2 \frac{dy}{dx} \right) + \frac{1}{x} \frac{dy}{dx} = 0$

$$\frac{1}{x} \left(2x \frac{dy}{dx} + x^2 \frac{d^2y}{dx^2} \right) + \frac{1}{x} \frac{dy}{dx} = 0$$

$$2 \frac{dy}{dx} + x \frac{d^2y}{dx^2} + \frac{dy}{dx} = 0$$

$$x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} = 0$$

[illegible]

1. $\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m \frac{d}{dt} (v^2) = m v \frac{dv}{dt} = m v a$
2. $\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m \frac{d}{dt} (v^2) = m v \frac{dv}{dt} = m v a$
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6. $\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m \frac{d}{dt} (v^2) = m v \frac{dv}{dt} = m v a$

سرفصل:

- [illegible]



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