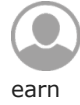


childsmathMath 3A03
Poll Results

$$\int_M d\omega = \int_{\partial M} \omega$$

**Derivatives: Differentiable at 0****Question #1** Suppose $f : \mathbb{R} \rightarrow \mathbb{R}$, $f(0) = 0$, and

$$f(x) = x^2 \sin\left(\frac{1}{x^2}\right) \quad \text{for all } x \neq 0.$$

Is f differentiable at $x = 0$?