

Calculus

F 11 October 2013

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Response tables

Σ points = 100

Pts agree

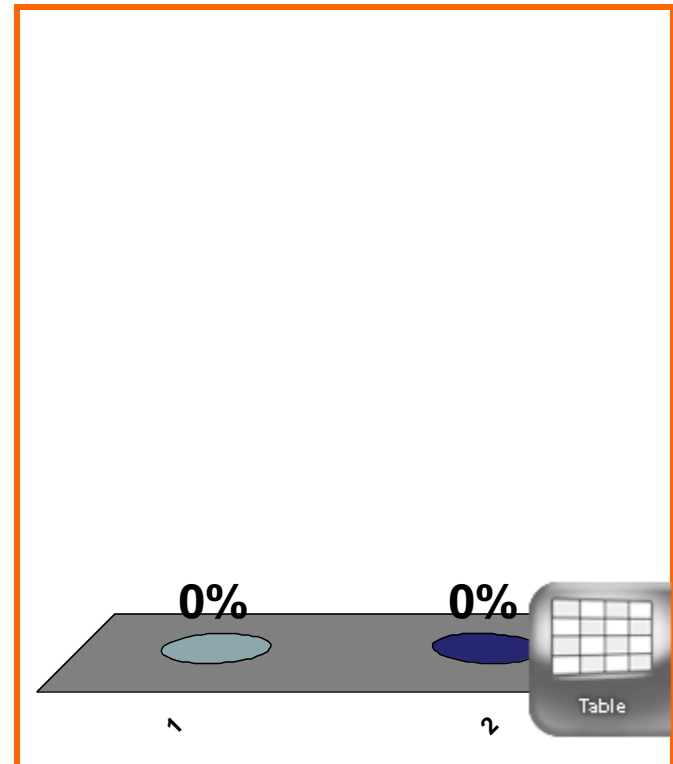
Answers agree

QUIZ
FOLLOWS

$$1 + 1 = ??$$

(a) 1

(b) 2



arithmetic

0 pts

5

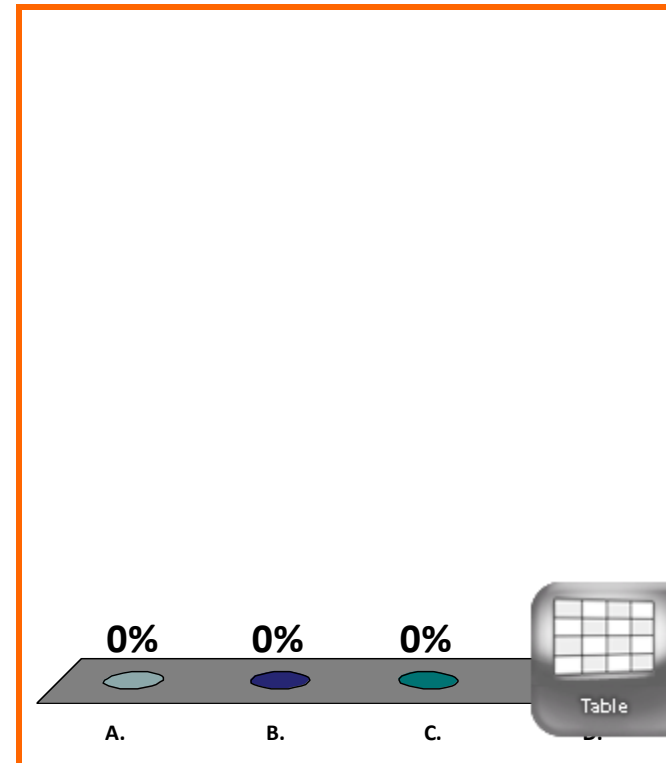
$$\frac{d}{dx} [x \sin x + 4 \cos x] = ??$$

(a) $\sin x + x \cos x - 4 \sin x$

(b) $(1)(\cos x) + (0)(-\sin x)$

(c) $x \cos x - 4 \sin x$

(d) none of the above



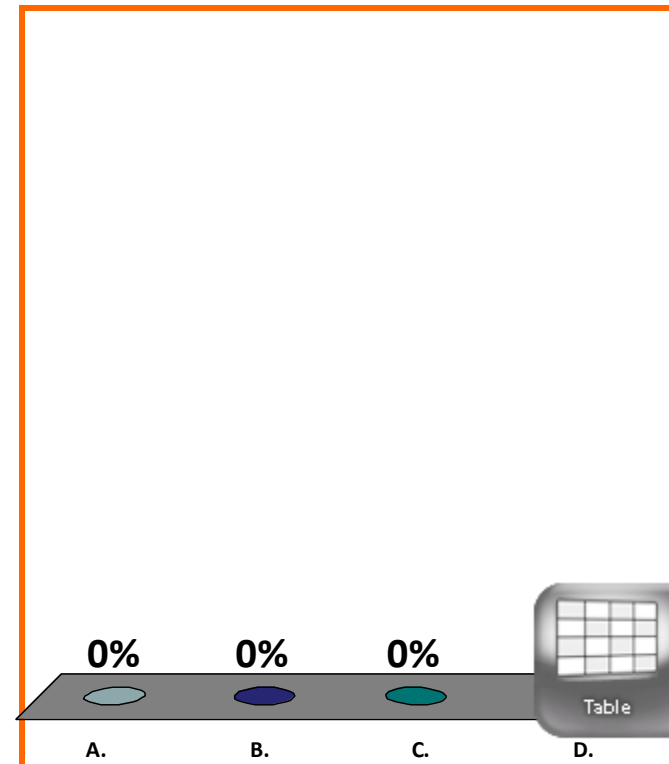
$$\frac{d}{dx} \left[\ln \left| (x^2 + 4x - 1)^{1/3} \right| \right]$$

(a) $\frac{1}{3} \left(\frac{2x + 4}{x^2 + 4x - 1} \right)^{-2/3}$

(b) $\frac{1}{3} \cdot \frac{2x + 4}{x^2 + 4x - 1}$

(c) $\left(\frac{2x + 4}{x^2 + 4x - 1} \right)^{1/3}$

(d) none of the above



$$\log_{10}(x) = \frac{\ln x}{\ln 10}$$

$$(a) \frac{1/x}{\ln 10}$$

$$(b) \frac{1/x}{1/10}$$

$$(c) \frac{\ln x}{1/10}$$

(d) none of the above

$$\frac{d}{dx} [\log_{10}(x)] = ??$$

$x > 0$

A. 0%
B. 0%
C. 0%

Table

Principle of log diff:

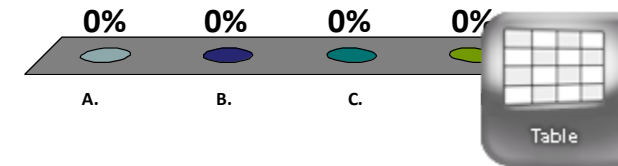
$$f'(x) = ??$$

(a) $[f(x)][(d/dx)(\ln |f(x)|)]$

(b) $[f'(x)]/[f(x)]$

(c) $(d/dx)(\ln |f(x)|)$

(d) **none** of the above



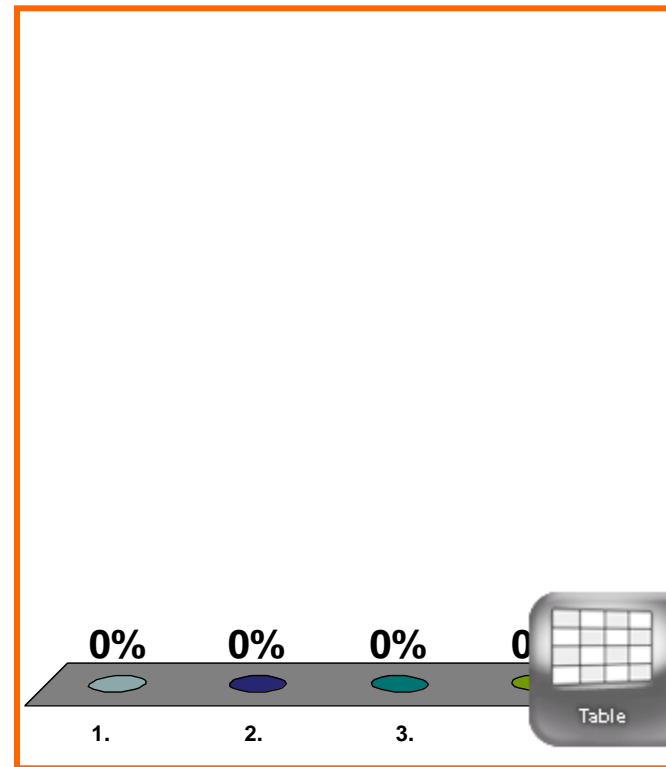
$$\lim_{x \rightarrow 0} \frac{e^x - 1 - x}{x^2} = ??$$

(a) ∞

(b) $\lim_{x \rightarrow 0} \frac{e^x - 1}{2x}$

(c) DNE

(d) none of the above



END
QUIZ