

Calculus

M 30 September 2013

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Response tables

Σ points = 100

Pts agree

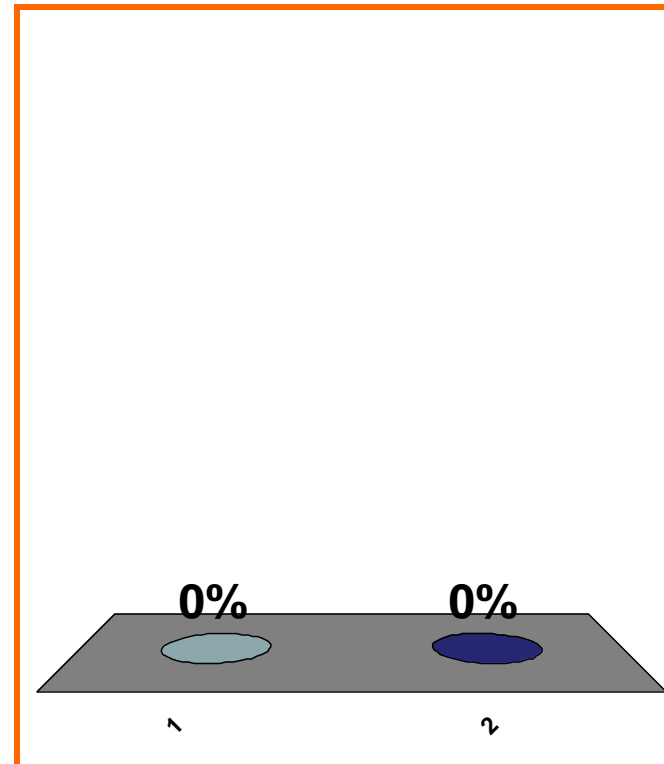
Answers agree

QUIZ
FOLLOWS

$$1 + 1 = ??$$

(a) 1

(b) 2



arithmetic

0 pts

5

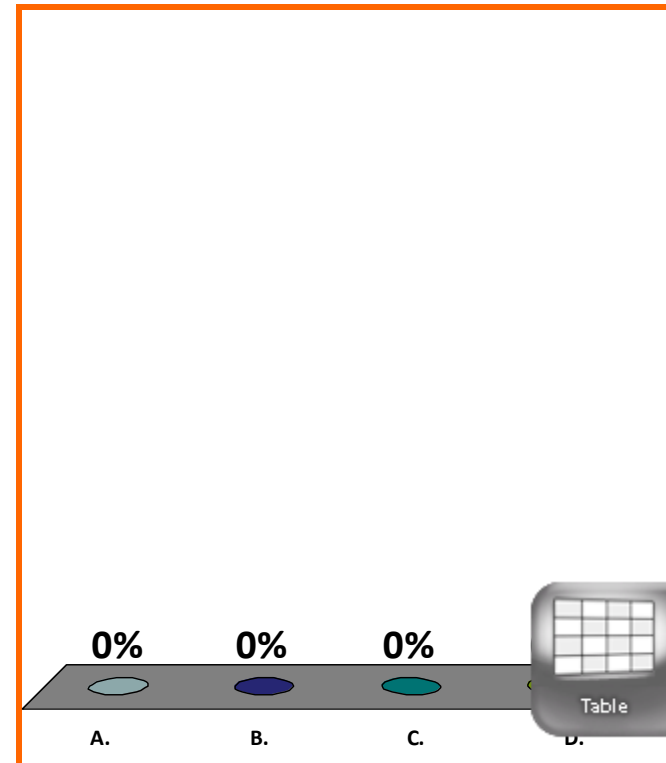
$$\lim_{t \rightarrow 0} \left[\frac{2t^5 + 8t^4}{t^2(\sin^2 t)} \right]$$

(a) 8

(b) ∞

(c) $-\infty$

(d) none of the above



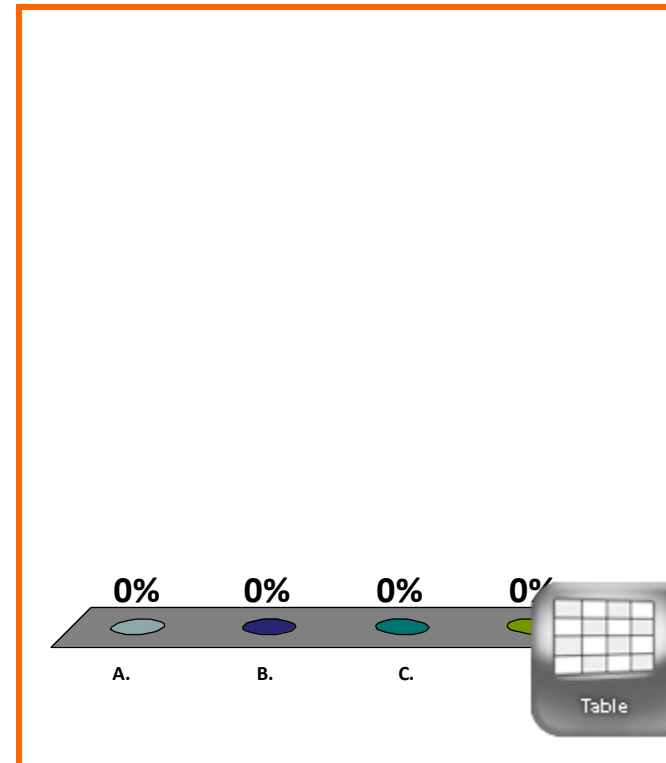
$$\frac{d}{dx} [3 \sin x + 4 \cos x] = ??$$

(a) $(0)(\cos x) + (0)(-\sin x)$

(b) $3 \cos x + 4 \sin x$

(c) $3 \cos x - 4 \sin x$

(d) **none** of the above



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

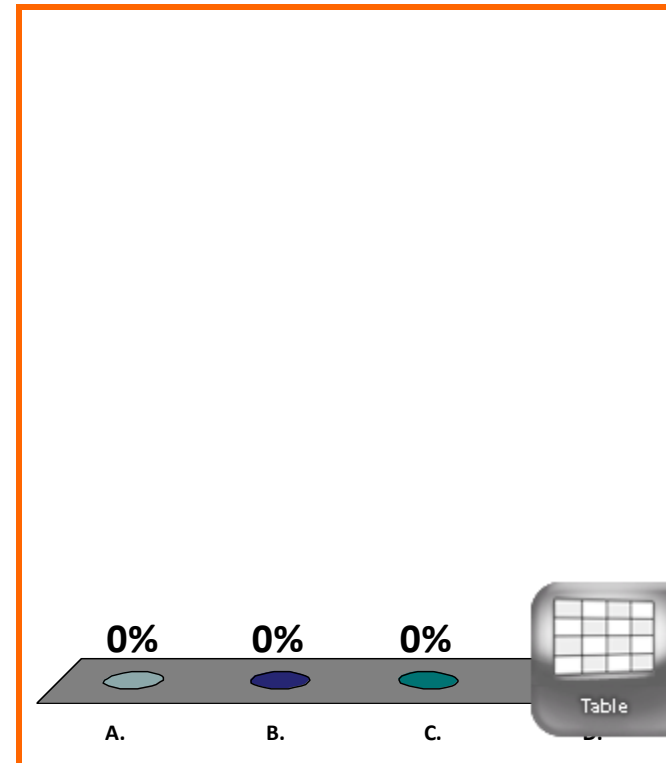
(a) $(1)(\cos x) + (0)(-\sin x)$

(b) $x \cos x + 4 \sin x$

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

(d) none of the above

Correct: $\sin x + x \cos x - 4 \sin x$



$$h'(x) = [f'(x)][g(x)] + [f(x)][g'(x)]$$

$$h'(4) = [f'(4)][g(4)] + [f(4)][g'(4)]$$

$$f(4) = 7, f'(4) = 1$$

$$g(4) = 6, g'(4) = 3$$

$$h(x) = [f(x)][g(x)]$$

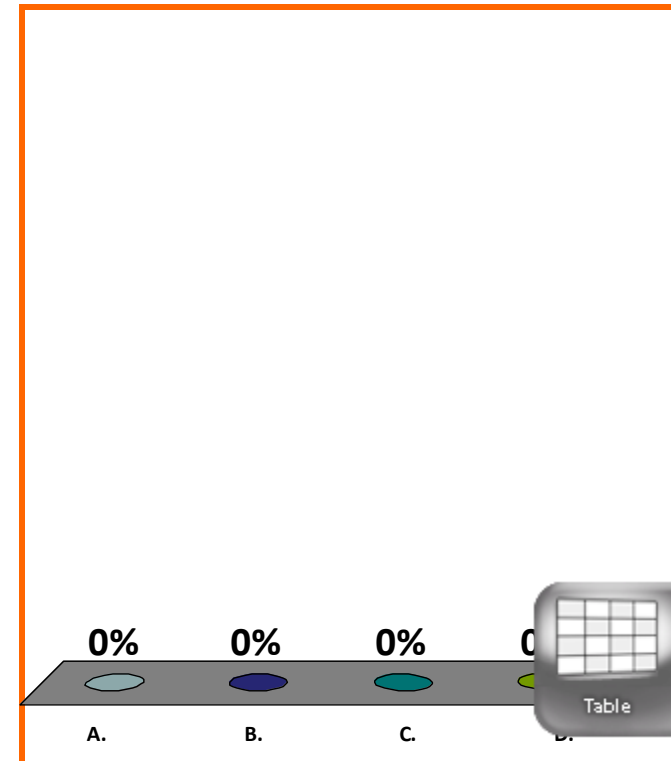
$$h(4) = ??, h'(4) = ??$$

(a) 42, 3

(b) 13, 27

(c) 42, 27

(d) none of the above



END
QUIZ