

Calculus

F 1 November 2013

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Response tables

Σ points = 100

Pts agree

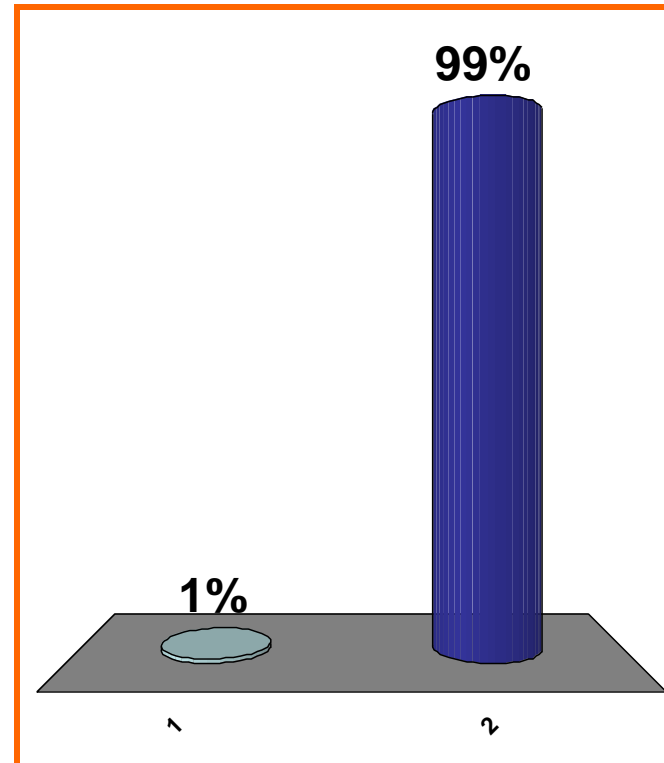
Answers agree

QUIZ
FOLLOWS

$$1 + 1 = ??$$

(a) 1

(b) 2



arithmetic

0 pts

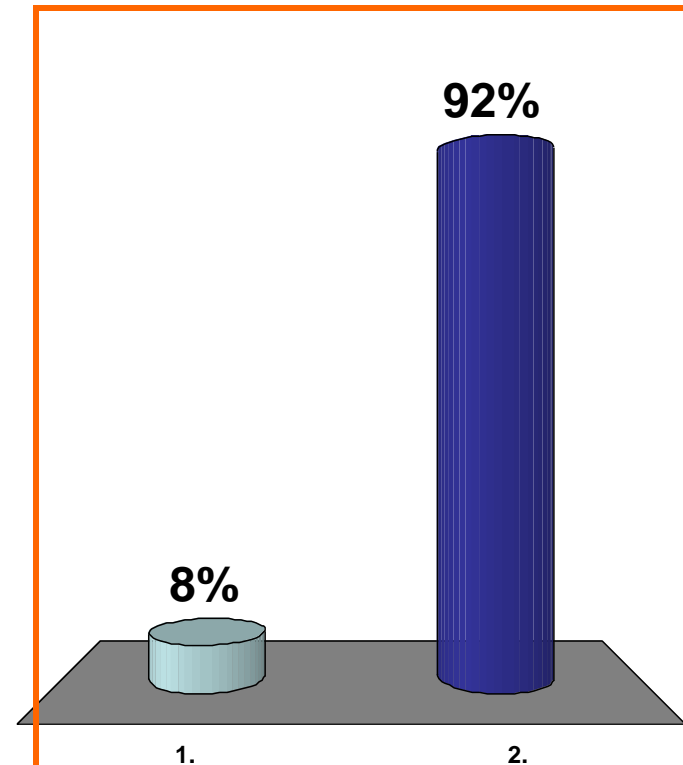
5

T or F:

Any global max is
a local max.

(a) True

(b) False

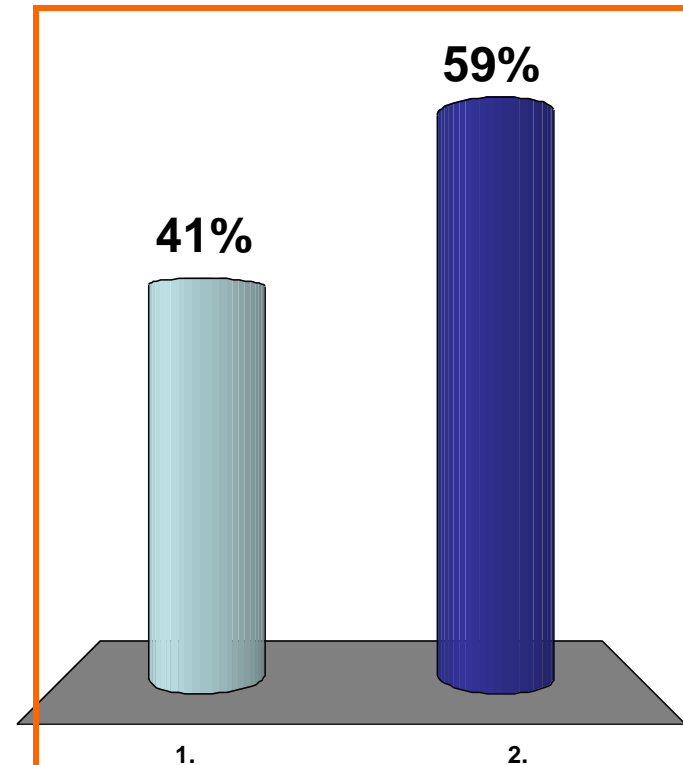


T or F:

If f is cc up on I ,
then $f'' > 0$ on I .

(a) True

(b) False



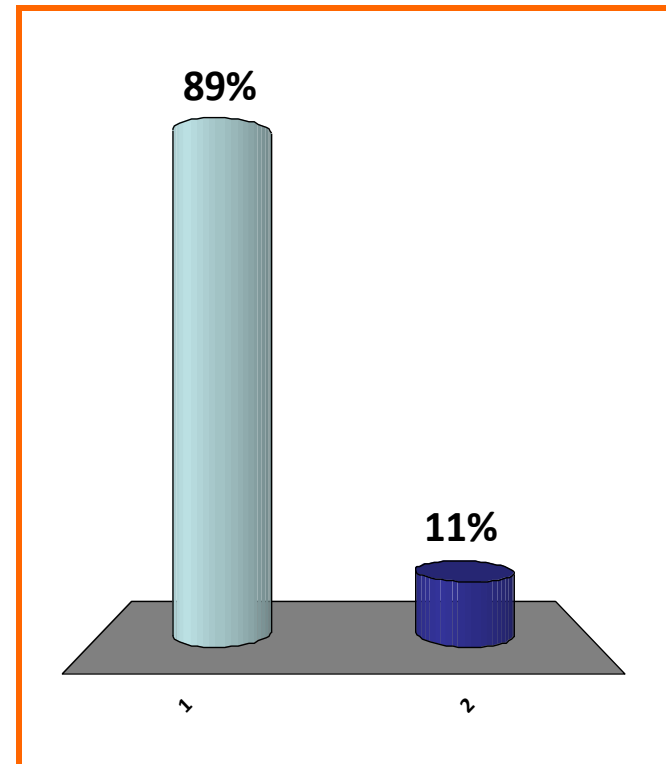
T or F:

$$f'(2) = 0, \quad f''(2) < 0$$

\Rightarrow f has a local max at 2

(a) True

(b) False



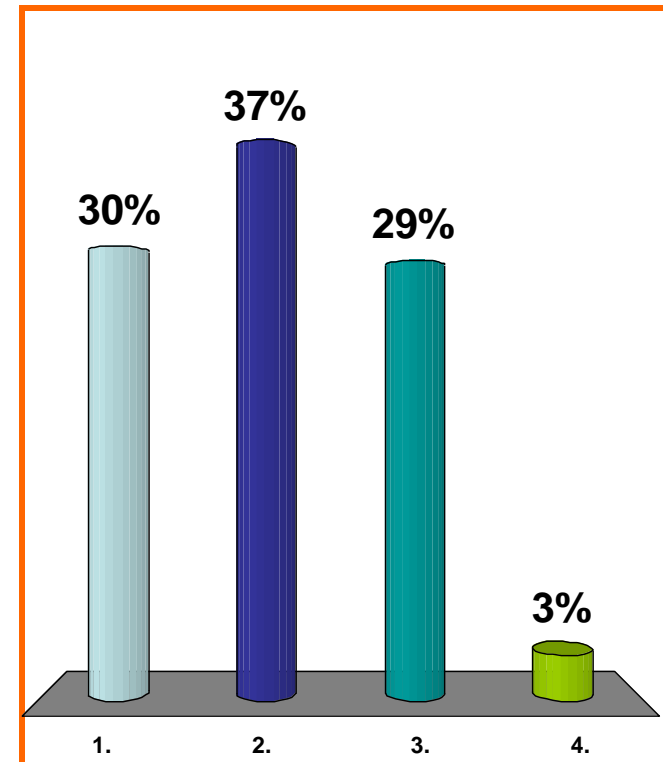
Newton's method formula
to solve $2x^3 - 4x + 8 = 0$.

$$(a) \quad x_{n+1} = x_n - \frac{2x_n^3 - 4x_n + 8}{6x_n^2 - 4}$$

$$(b) \quad x_{n+1} = x_n + \frac{6x_n^2 - 4}{2x_n^3 - 4x_n + 8}$$

$$(c) \quad x_{n+1} = x_n - \frac{6x_n^2 - 4}{2x_n^3 - 4x_n + 8}$$

(d) **none** of the above



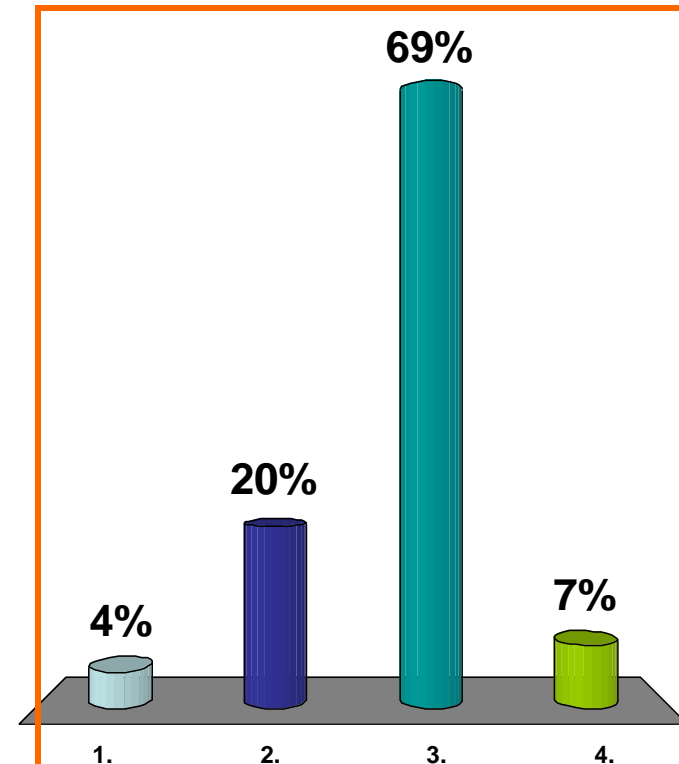
Newton's method formula to solve $2e^x + x^2 - 8 = 0$.

$$(a) \quad x_{n+1} = x_n - \frac{2x_n e^{x_n-1} + 2x_n}{2e^{x_n} + x_n^2 - 8}$$

$$(b) \quad x_{n+1} = x_n - \frac{2e^{x_n} + x_n^2 - 8}{2x_n e^{x_n-1} + 2x_n}$$

$$(c) \quad x_{n+1} = x_n - \frac{2e^{x_n} + x_n^2 - 8}{2e^{x_n} + 2x_n}$$

(d) none of the above



Newton's method
for solving $e^{5x} + x^2 = 7$:

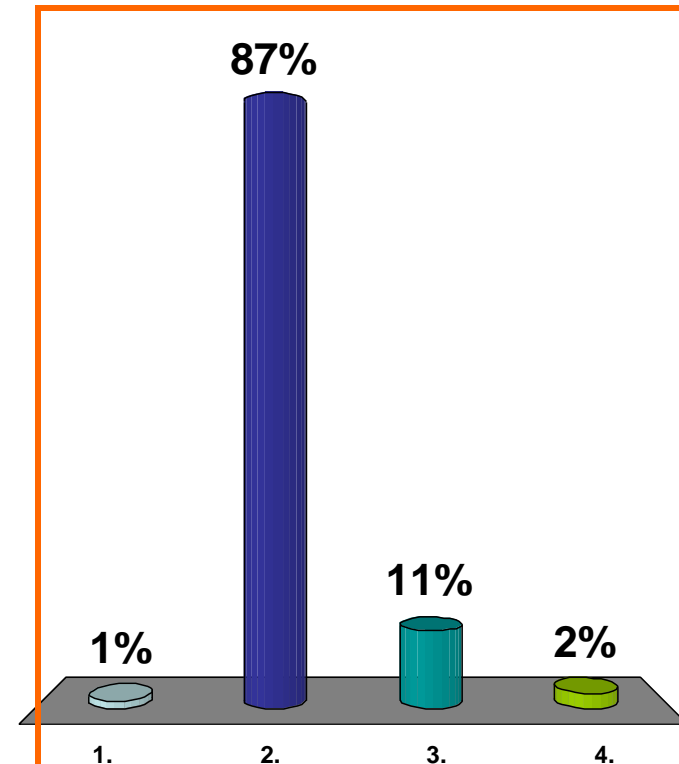
$$x_{n+1} = ??$$

(a) $x_n - \frac{e^{5x_n} + x_n^2}{e^{5x_n} + 2x_n}$

(b) $x_n - \frac{e^{5x_n} + x_n^2 - 7}{5e^{5x_n} + 2x_n}$

(c) $x_n - \frac{e^{5x_n} + x_n^2 - 7}{e^{5x_n} + 2x_n}$

(d) none of the above



END
QUIZ