Calculus
W 30 October 2013

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Response tables

$\sum$ points $= 100$

Pts agree

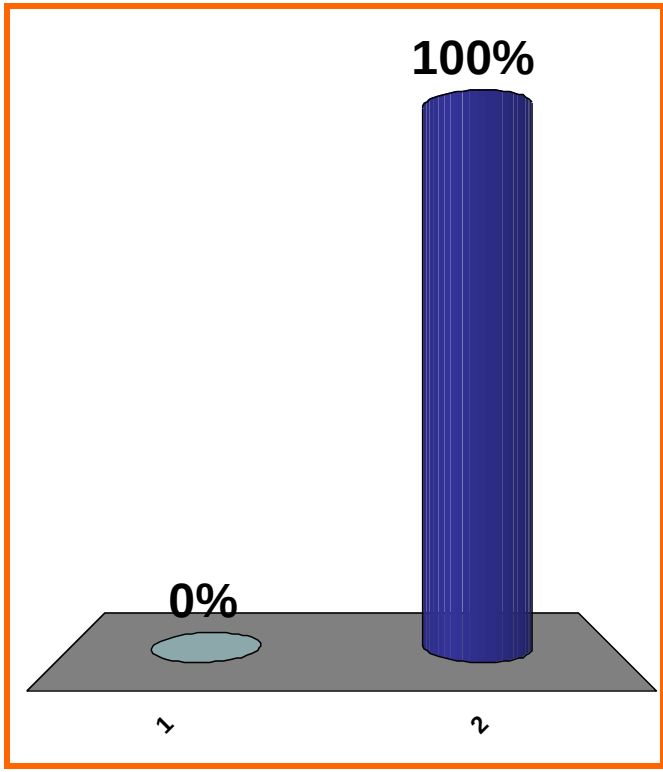
Answers agree

QUIZ
FOLLOWS

$1 + 1 = ??$

(a) 1

(b) 2

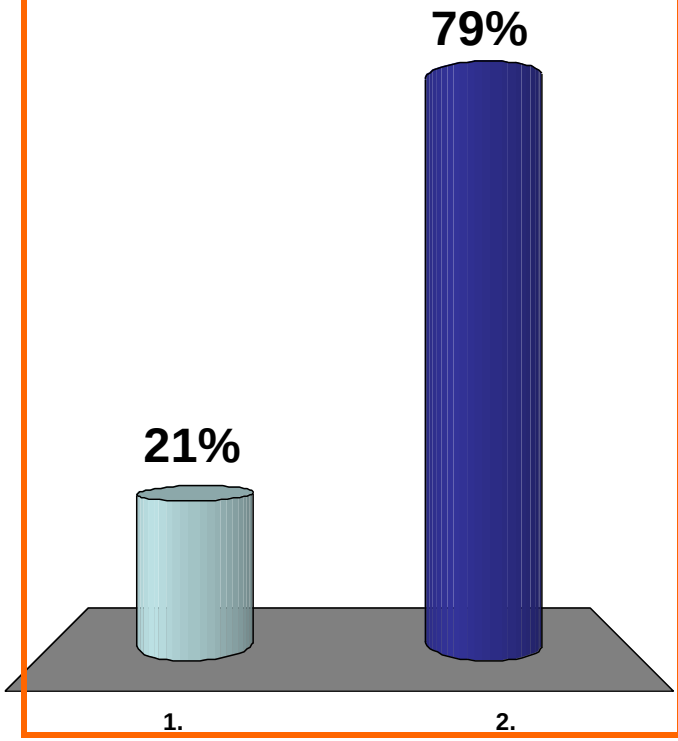


T or F:

Any global max is a local max.

(a) True

(b) False

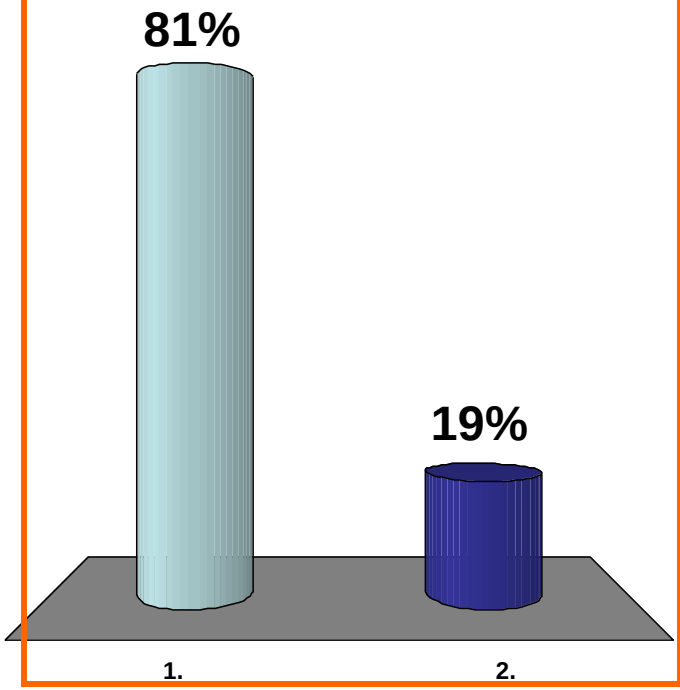


T or F:

Any global max or global min is at a critical number.

(a) True

(b) False



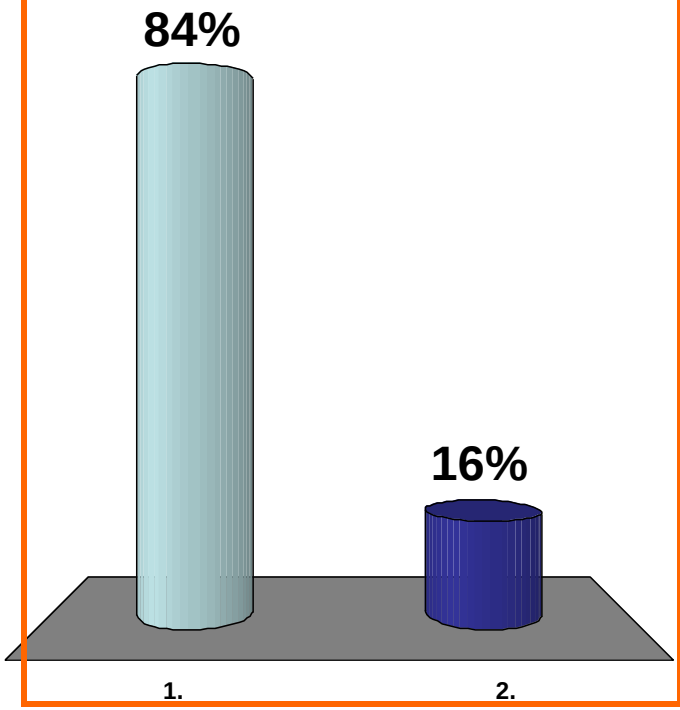
T or F:

f incr. on $(2, 3)$

$\Rightarrow$ $f' > 0$ on $(2, 3)$

(a) True

(b) False



T or F:

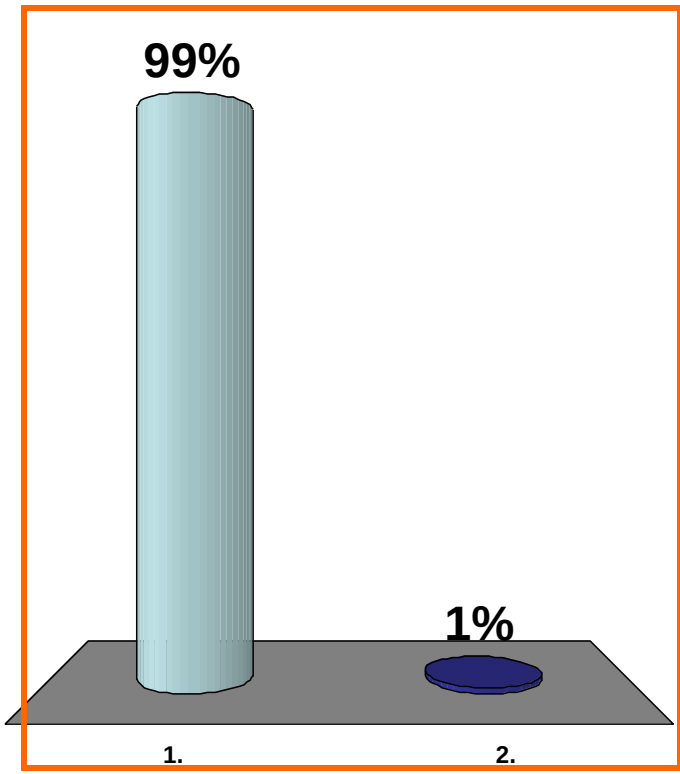
f incr. on $(2, 3)$

f diff. on $(2, 3)$

$\Rightarrow$ $f' \geq 0$ on $(2, 3)$

(a) True

(b) False

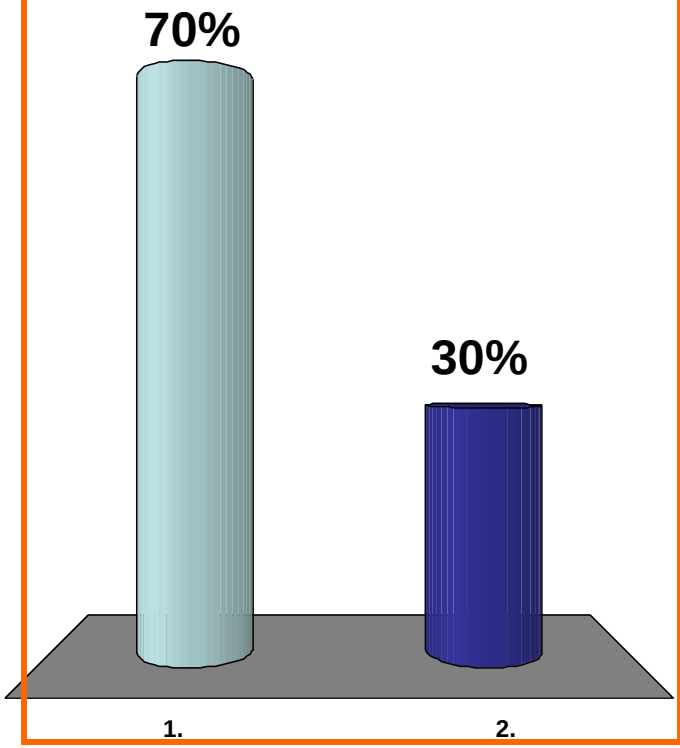


T or F:

If $f' < 0$ on I,
then f is decreasing on I.

(a) True

(b) False

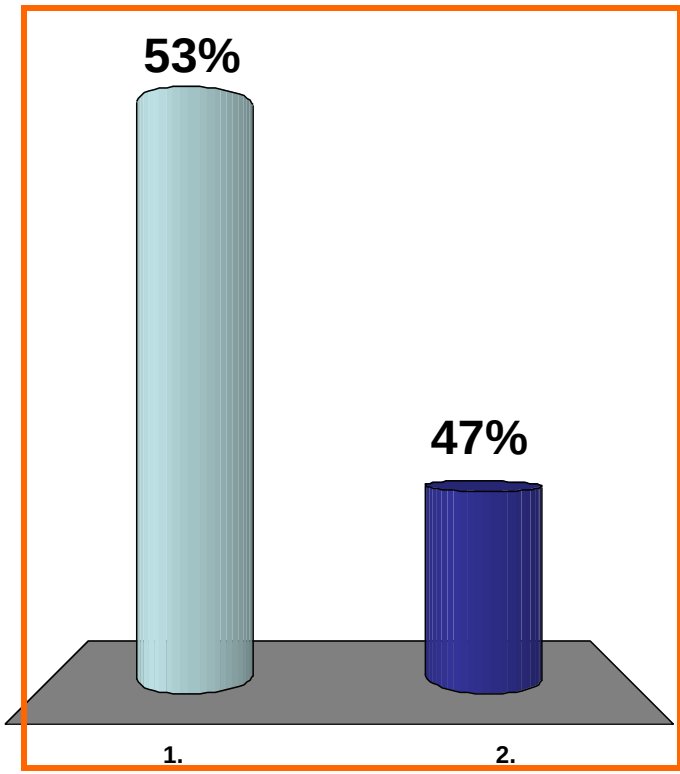


T or F:

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

(a) True

(b) False

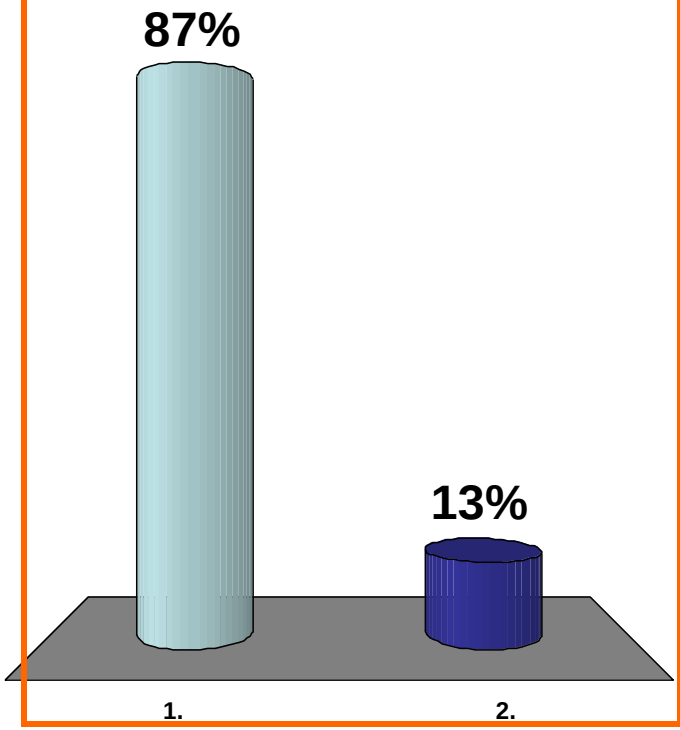


T or F:

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

(a) True

(b) False



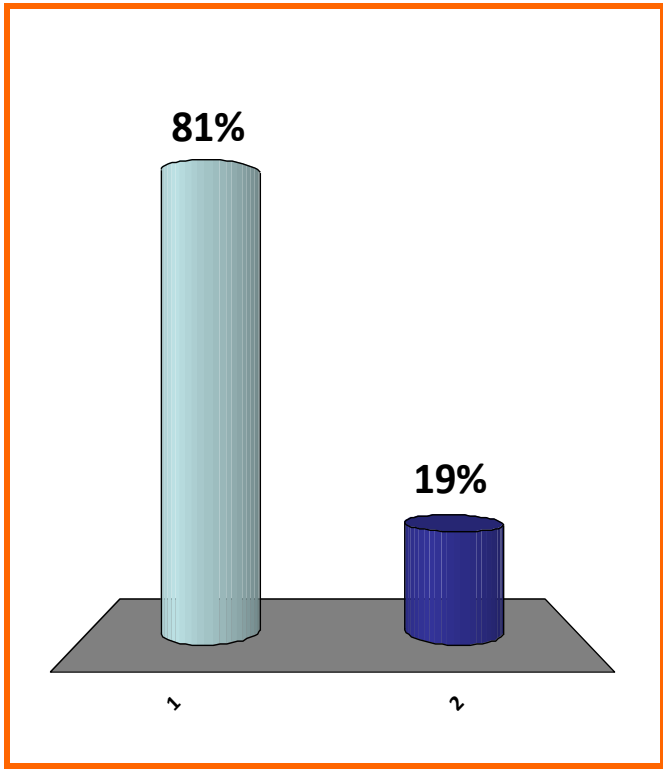
T or F:

f' pos on $(1,2)$, $f'(2) = 0$, f' neg on $(2,3)$

$\Rightarrow$ f has a local max at 2

(a) True

(b) False

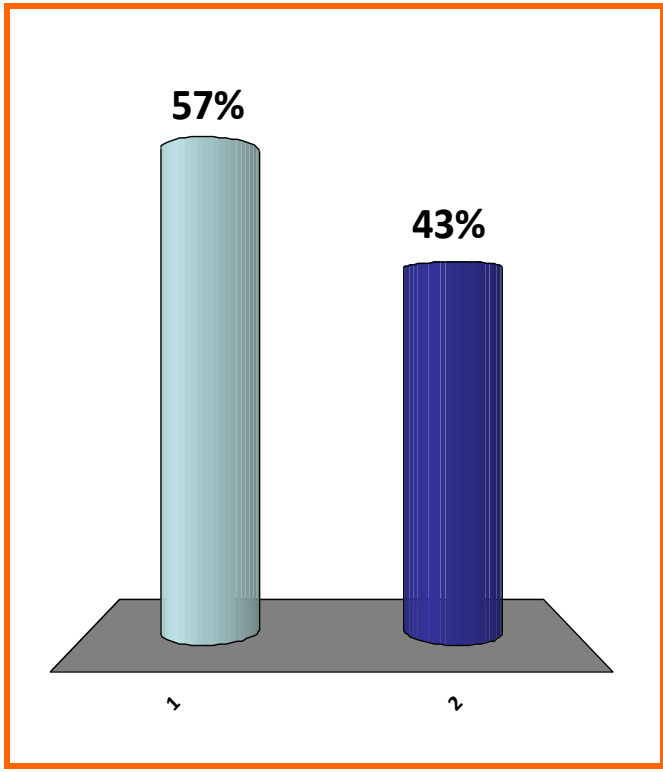


T or F:

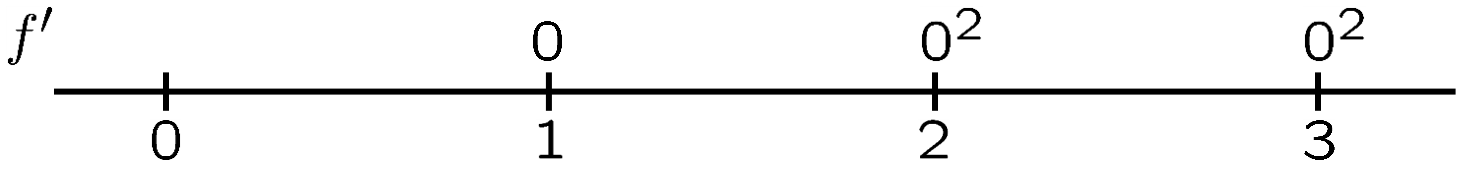
$$f'(2) = 0, \quad f''(2) < 0$$
$$\Rightarrow \quad f \text{ has a local max at } 2$$

(a) True

(b) False



max interval of decr.
for f, if $f'(x) = -(x-1)(x-2)^2(x-3)^2$.

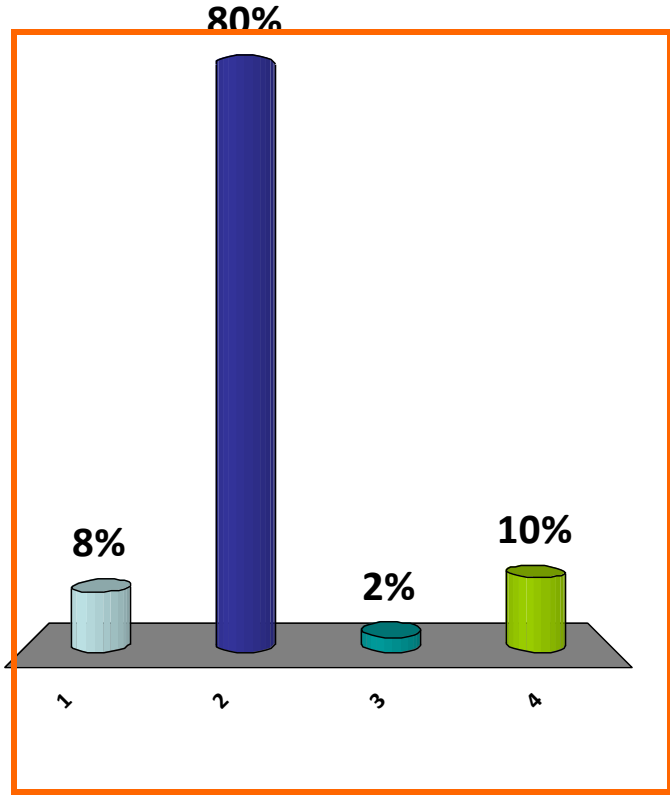


(a) $[0, \infty)$

(b) $[1, \infty)$

(c) $[2, \infty)$

(d) none of the above



END
QUIZ