

# Calculus

W 31 October 2012

RESET THE  
SESSION

SET THE  
PARTICIPANT  
LIST

PLUG IN THE  
RECEIVER

Boxed answers agree with  
TurningPoint answers

Points agree with  
TurningPoint points

Points total to 100

Topics covered are in bounds

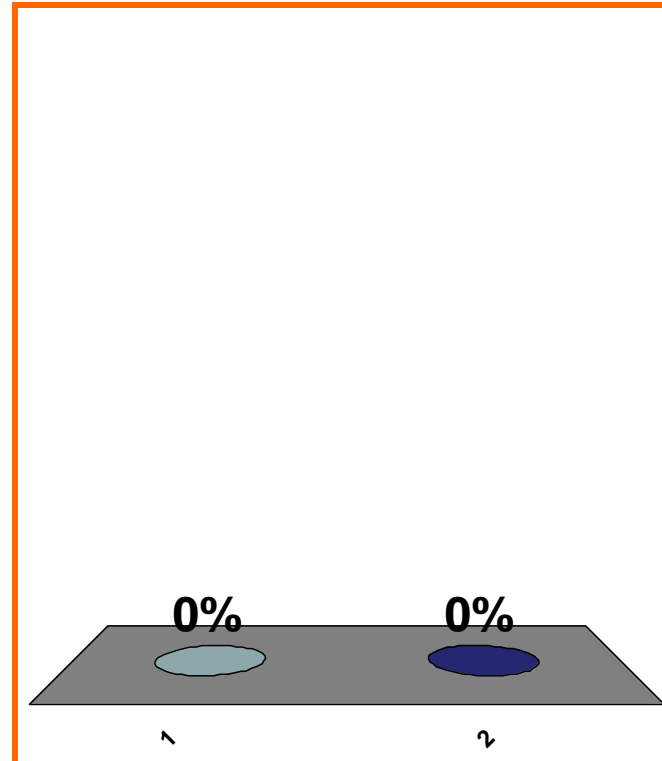
QUIZ  
FOLLOWS

T or F:

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

(a) True

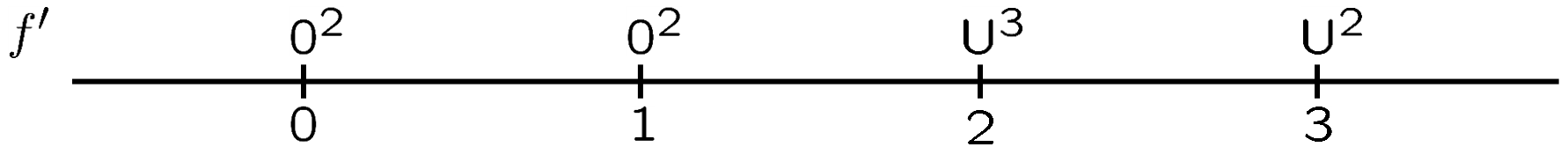
(b) False



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

max intervals of incr

for  $f$ , if  $f'(x) = x^2(x-1)^2/(x-2)^3(x-3)^2$ .



(a)  $[0, \infty)$

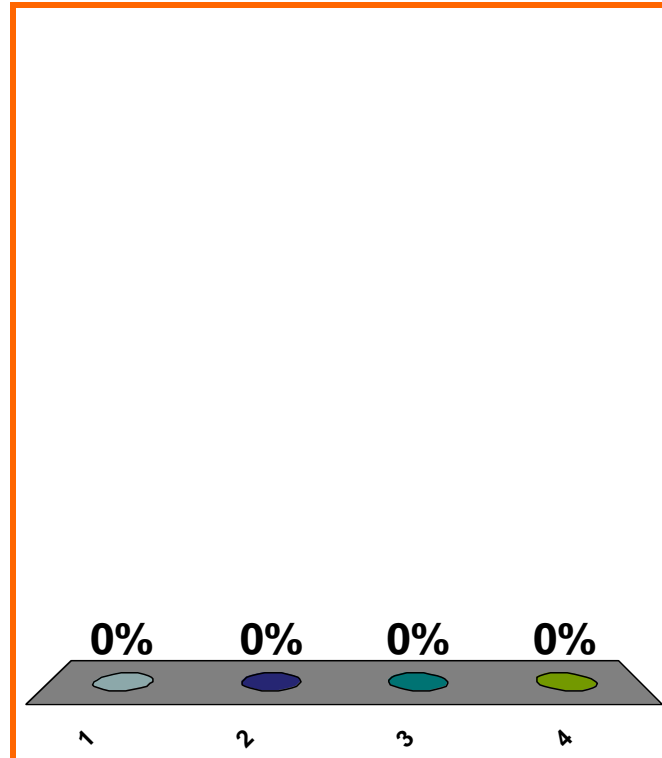
NOTE:  
 $f(2)$  and  $f(3)$   
DNE

(b)  $[1, \infty)$

(c)  $[2, \infty)$

(d) none of the above

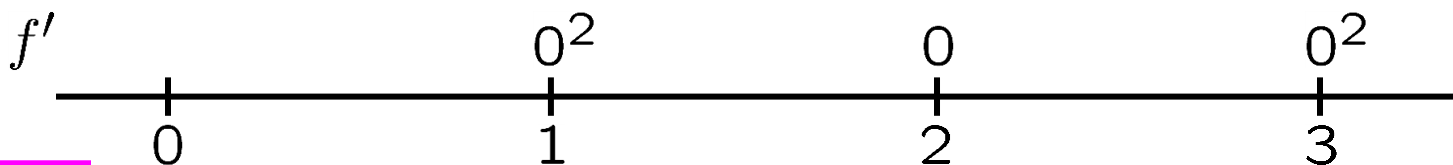
Correct:  $(2, 3)$  and  $(3, \infty)$



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

max interval of decr.

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

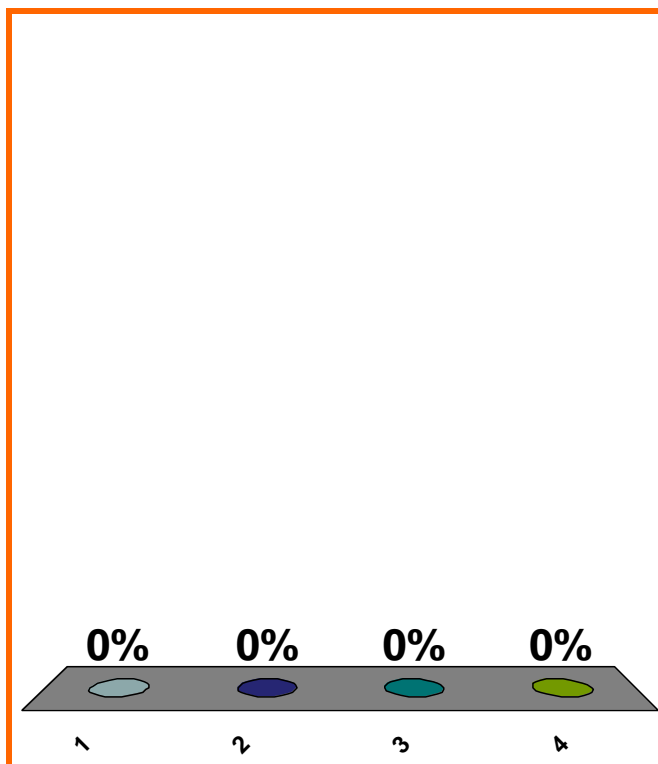


(a)  $[2, \infty)$

(b)  $[1, \infty)$

(c)  $[0, \infty)$

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

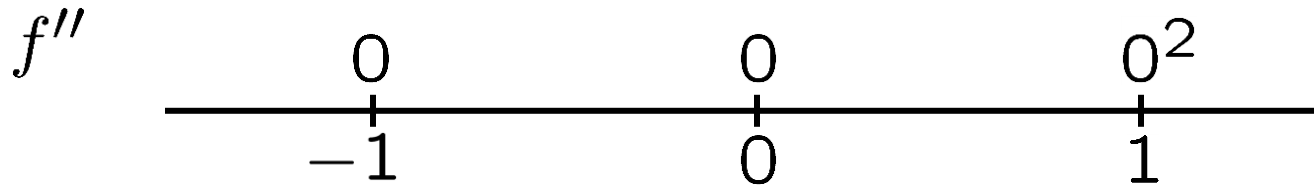
0 of 5

Topic 0470

20 pts

$$f''(x) = -(x-1)^2 x(x+1)$$

max intvl cc up

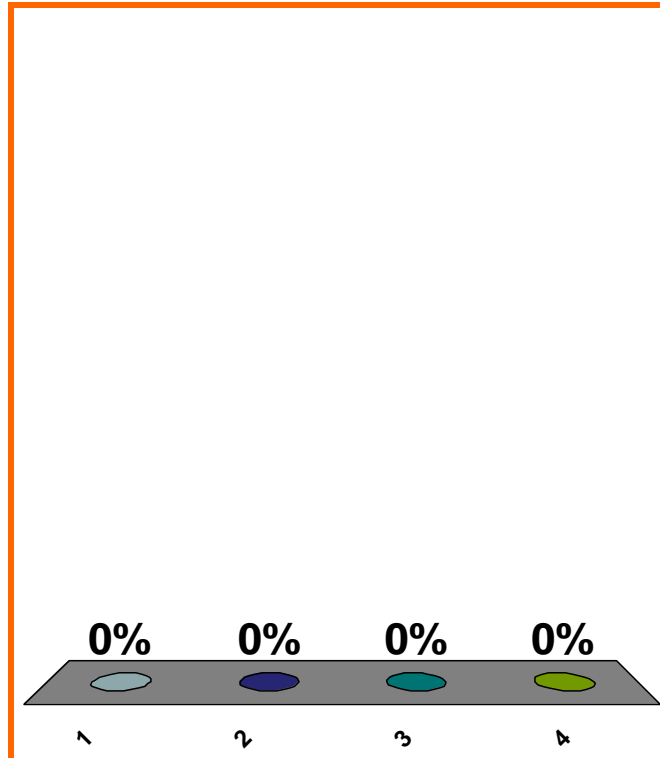


(a)  $[-1, 1]$

(b)  $[0, \infty)$

(c)  $[-1, 0]$

(d) none of the above

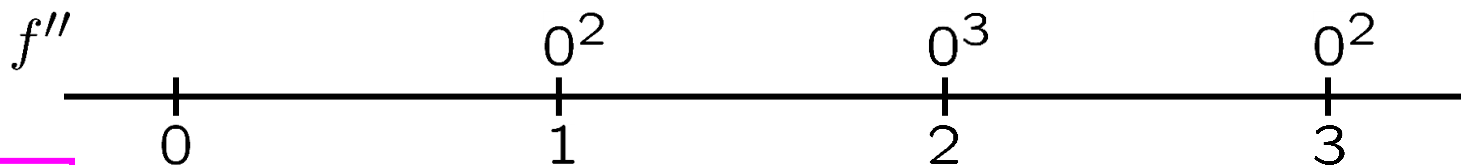


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40



max intervals of cc dn

for  $f$ , if  $f''(x) = -e^{-x}(x-1)^2(x-2)^3(x-3)^2$ .

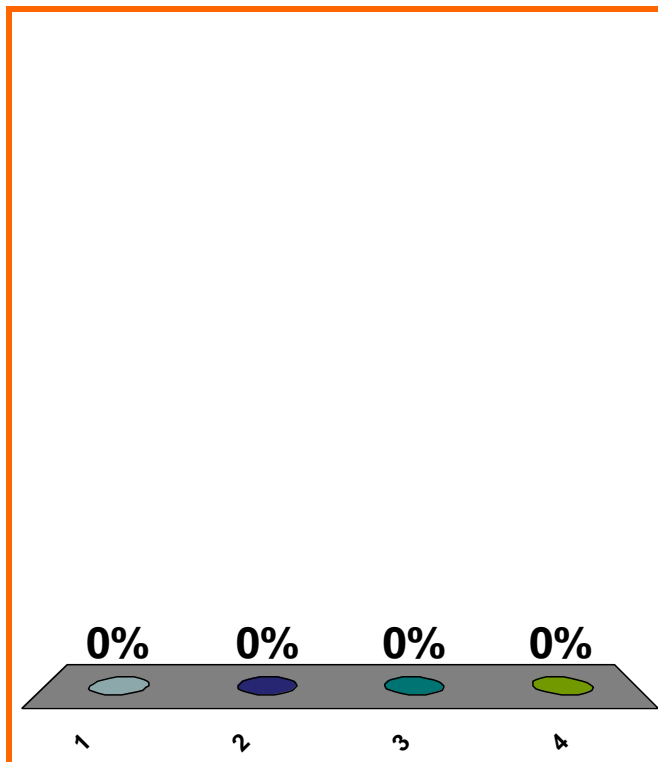


(a)  $[2, \infty)$

(b)  $[1, \infty)$

(c)  $[0, \infty)$

(d) none of the above



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

0 of 5

Topic 0470

20 pts

SAVE THE  
SESSION  
DATA

RETURN TO  
PRESENTATION