

MATH 161 QUIZ 12 NAME: _____

Copyright ©2009 by A. Schremmer under a GNU Free Documentation License.

[Run: 03/16/2016 at 15:29 Seed: 6477. Order of Checkable Items: List.]

Response Grid (Check the appropriate boxes thus:)

Question	a	b	c	d	e
1					
2					
3					

Q_z 12-1. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +2x^2 + 2x - 24$$

for which input(s), if any, is the output of f equal to 0?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

a. -4, +3 b. +4 c. -3, +4 d. No such input

e. None of the preceding

iii. Check the corresponding box in the **Response Grid** on the front page thus: .

Q_z 12-2. Let the function JIM be specified by the global input-output rule

$$x \xrightarrow{JIM} JIM(x) = +6x^2 - 24$$

for which input(s), if any, is the output of JIM negative?

Your Work:

--

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

- a. All inputs larger than 0 b. All inputs outside the interval $[-2, +2]$ c. All inputs inside the interval $[-2, +2]$
 d. No such input
 e. None of the preceding

iii. Check the corresponding box in the **Response Grid** on the front page thus: .

Qz 12-3. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -3x^2 + 12x + 5$$

for which input(s), if any, is Slope-sign $f = (\swarrow, \nearrow)$?

Your Work:

i. You must make your case for whatever you are asserting.

ii. Circle which of the following choices corresponds to your result.

- a. All inputs b. All inputs smaller than +2 c. All inputs larger than -2 d. No such input
 e. None of the preceding

iii. Check the corresponding box in the **Response Grid** on the front page thus: .