

MATH 161 REALITY CHECK 14 NAME: _____

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[Run: 01/22/2016 at 21:57 Seed: 6477. Order of Checkable Items: List.]

Response Grid (Check the appropriate boxes thus:)

Question	a	b	c	d	e
1					
2					
3					
4					
5					
6					

After having read the chapter pencil in hand and done this REALITY CHECK ,

i. What would you say the idea of the chapter is:

ii. What questions do you have:

-
-
-

MATH 161 REALITY CHECK 14 NAME: _____

Rck 14-1. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +3x(x+4)(x-5)$$

find the input(s) with 0-output if any.

Your Work:

i. You must make your case for whatever statement you are making.

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

a. $x_{0\text{-output}} = +3, +4, -5$

b. $x_{0\text{-output}} = +4, -5$

c. $x_{0\text{-output}} = -5, 0, +4$

d. $x_{0\text{-output}} = -4, 0, +5$

e. None of the preceding

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

Rck 14-2. Let the function f be specified by the global input-output rule

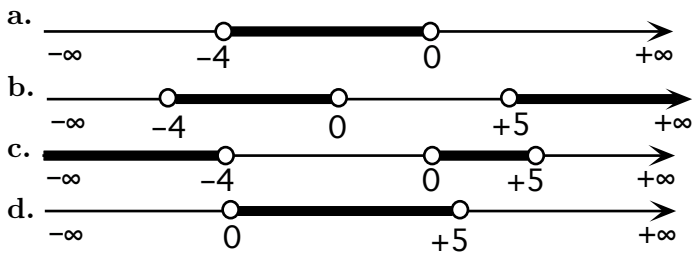
$$x \xrightarrow{f} f(x) = +3x(x+4)(x-5)$$

find the input(s), if any, with *negative* output.

Your Work:

i. You must make your case for whatever statement you are making.

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



e. None of the preceding

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

Rck 14-3. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +2x^3 + 3x^2 - 12x + 1$$

find the input(s), if any, with 0-slope.

Your Work:

i. You must make your case for whatever statement you are making.

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

- a. $x_{0\text{-slope}} = +1, +2$ b. $x_{0\text{-slope}} = -1, +2$ c. $x_{0\text{-slope}} = -2, +1$
 d. $x_{0\text{-slope}} = -2, -1$
 e. None of the preceding

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

Rck 14-4. Let the function f be specified by the global input-output rule

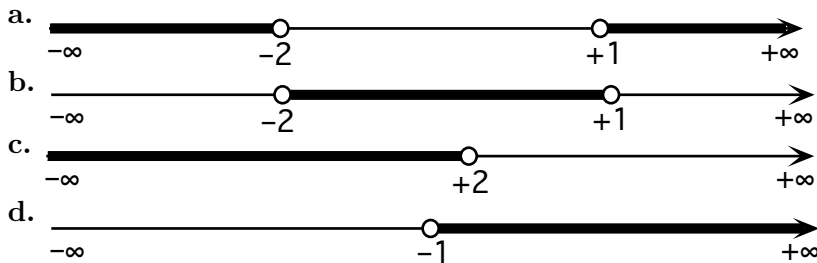
$$x \xrightarrow{f} f(x) = +2x^3 + 3x^2 - 12x + 1$$

find the input(s), if any, with \ slope.

Your Work:

- i. You must make your case for whatever statement you are making.

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



- e. None of the preceding

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

Rck 14-5. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -4x^3 + 24x^2 - x + 30$$

find the input(s), if any, with 0-concavity.

Your Work:

i. You must make your case for whatever statement you are making.

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

- a. $x_{0\text{concavity}} = -2$
 b. $x_{0\text{concavity}} = +2$
 c. $x_{0\text{concavity}} = -3$
 d. $x_{0\text{concavity}} = +3$
 e. None of the preceding

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

Rck 14-6. Let the function f be specified by the global input-output rule

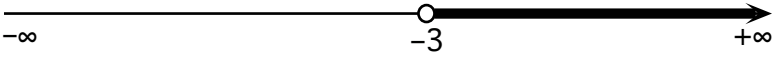

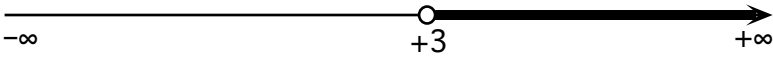

$$x \xrightarrow{f} f(x) = -4x^3 + 24x^2 - x + 30$$

Find the input(s), if any, with \cup -concavity.

Your Work:

i. You must make your case for whatever statement you are making.

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

- a. 
- b. 
- c. 
- d. 
- e. None of the preceding

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