

MATH 161 HOMEWORK 8 NAME: _____

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[Run: 08/20/2010 at 15:1. Seed: 6477. Order of Checkable Items: List.]

Response Grid:

Question	a	b	c	d	e
1					
2					
3					
4					
5					

8-1. Given the function *ALASTOR* specified by the global input-output rule

$$x \xrightarrow{ALASTOR} ALASTOR(x) = x - 72.81$$

and the function *MARUNE* specified by the global input-output rule

$$x \xrightarrow{MARUNE} MARUNE(x) = -43.47x$$

find $ALASTOR(MARUNE(-13.71))$

Your Work:

i. Explain your reasoning in getting your result.

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

- a. $ALASTOR(MARUNE(-13.71)) = +596 + [...]$
- b. $ALASTOR(MARUNE(-13.71)) = +668 + [...]$
- c. $ALASTOR(MARUNE(-13.71)) = -116 + [...]$
- d. $ALASTOR(MARUNE(-13.71)) = 3761 + [...]$
- e. None of the preceding

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

8-2. Given the function *ALASTOR* specified by the global input-output rule

$$x \xrightarrow{ALASTOR} ALASTOR(x) = x - 72.81$$

and the function *MARUNE* specified by the global input-output rule

$$x \xrightarrow{MARUNE} MARUNE(x) = -43.47x$$

find $MARUNE(ALASTOR(-13.71))$

Your Work:

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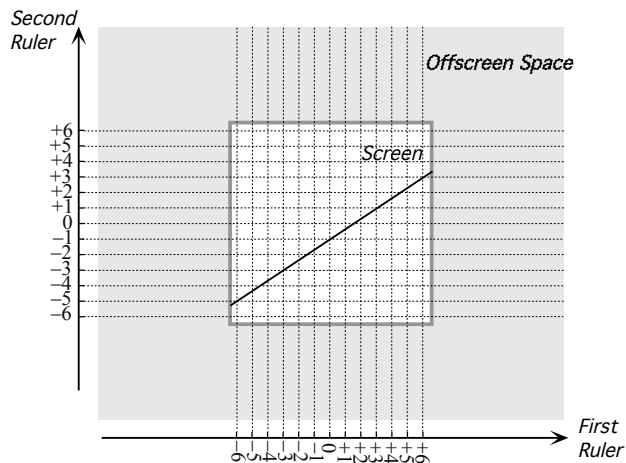
i. Explain your reasoning in getting your result.

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

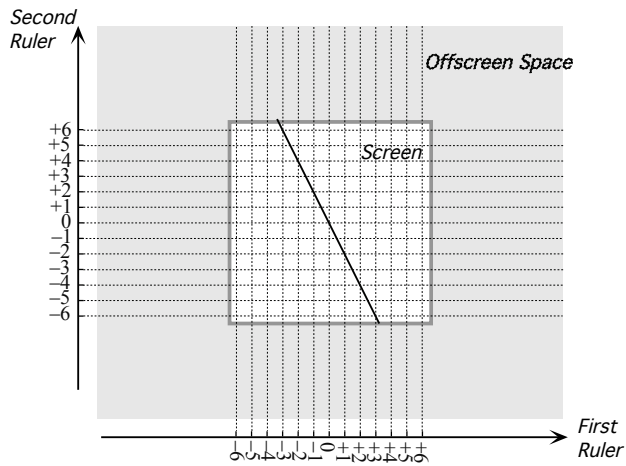
- a. $MARUNE(ALASTOR(-13.71)) = +596 + [...]$
- b. $MARUNE(ALASTOR(-13.71)) = +668 + [...]$
- c. $MARUNE(ALASTOR(-13.71)) = -116 + [...]$
- d. $MARUNE(ALASTOR(-13.71)) = 3761 + [...]$
- e. None of the preceding

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

8-3. Given the function $PNUME$ specified by the curve



and the function $DIRDIR$ specified by the curve



find $DIRDIR(PNUME(+3))$

Your Work:

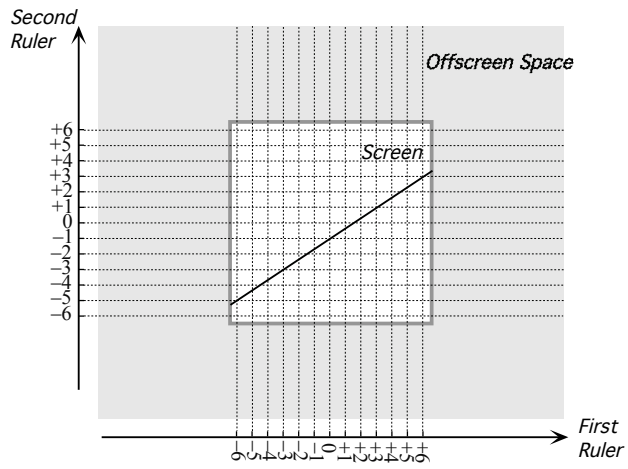
i. Explain your reasoning in getting your result.

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

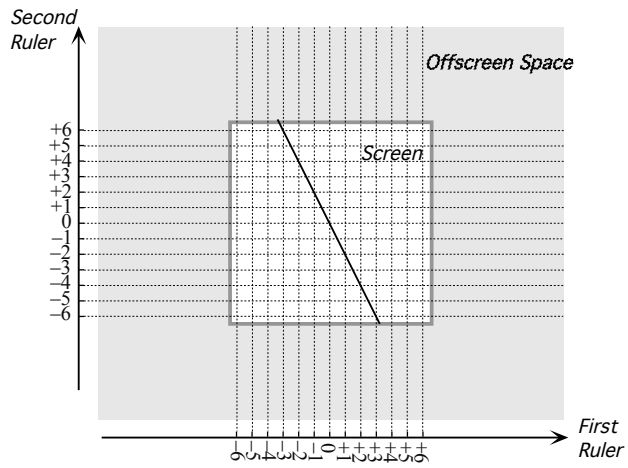
- a. $DIRDIR(PNUME(+3)) = -2$ b. $DIRDIR(PNUME(+3)) = +1$
 c. $DIRDIR(PNUME(+3)) = -6$ d. $DIRDIR(PNUME(+3)) = -5$
 e. None of the preceding

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

8-4. Given the function $PNUME$ specified by the curve



and the function $DIRDIR$ specified by the curve



find $PNUME(DIRDIR(+3))$

Your Work:

- i. Explain your reasoning in getting your result.

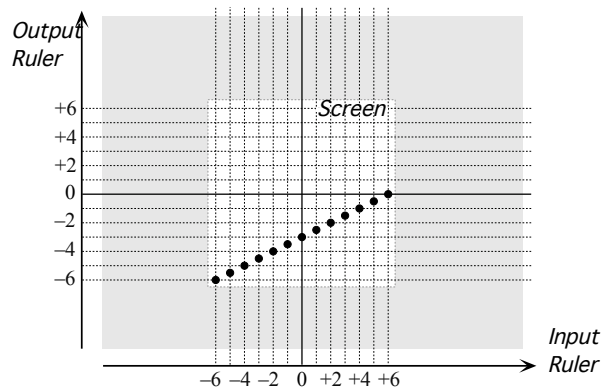
ii. Circle which of the following choices corresponds to your result.

- a. $PNUME(DIRDIR(+3)) = -2$ b. $PNUME(DIRDIR(+3)) = +1$
 c. $PNUME(DIRDIR(+3)) = -6$ d. $PNUME(DIRDIR(+3)) = -5$
 e. None of the preceding

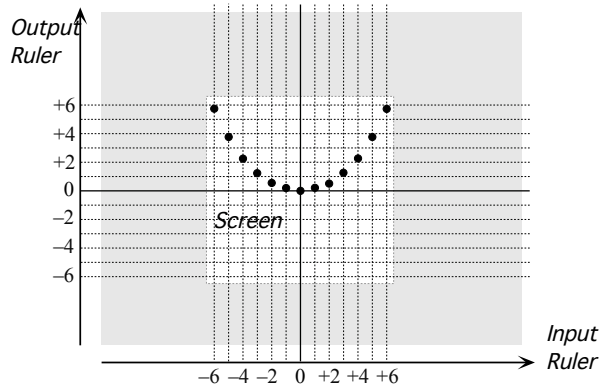
iii. Check the corresponding box in the **Response Grid** on the front page.

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8-5. Given the function *LURULU* specified by the plot



and the function *THROY* specified by the plot

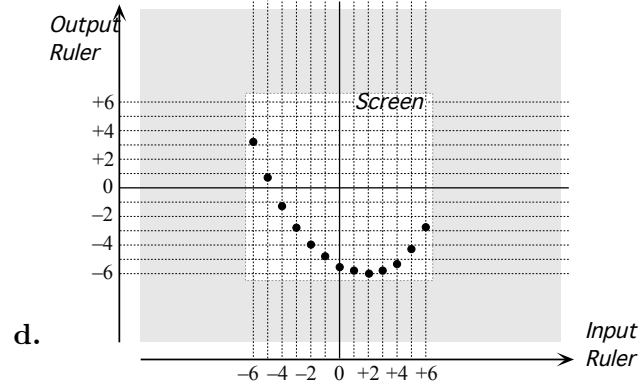
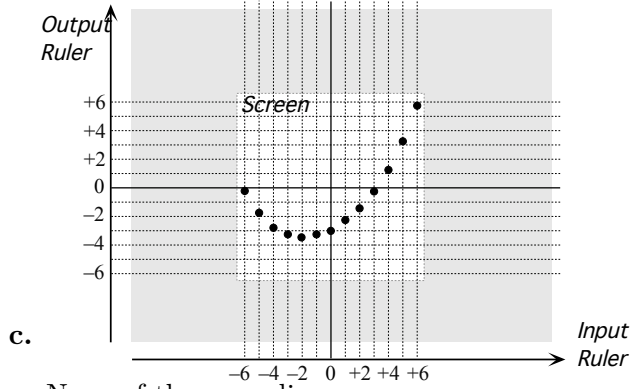
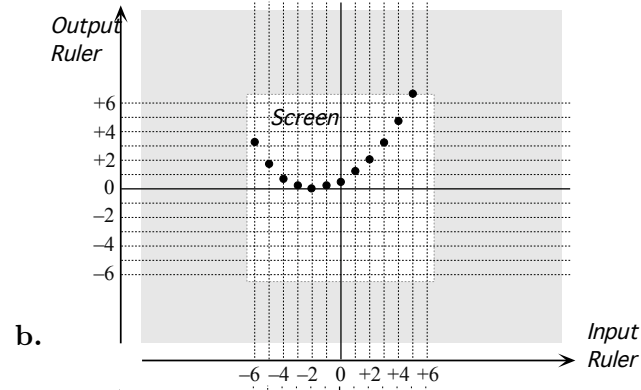
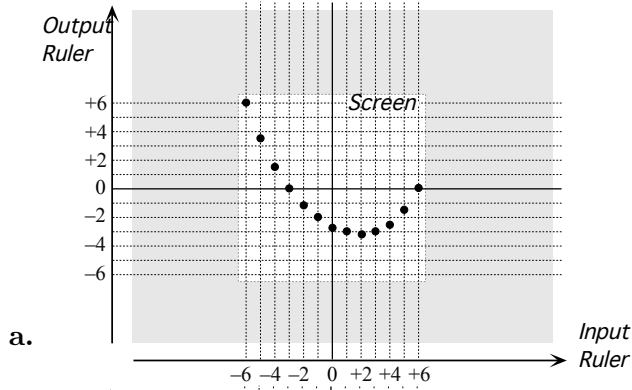


find the plot that specifies the function $LURULU + THROY$

Your Work:

i. Explain your reasoning in getting your result.

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.