

MATH 161 WORKOUT 10 NAME: _____

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[Run: 11/14/2012 at 11:15. Order of Checkable Items: List.]

10-1. Given the function $DAIK$ specified by the global input-output rule

$$x \xrightarrow{DAIKI} DAIKI(x) = +\frac{4}{3}x + 6$$

find Slope $DAIKI$, that is the slope of all local graphs of $DAIKI$.

10-2. Let f be the *affine* function specified by the *initial conditions*:

$$\text{AND} \begin{cases} \text{Height } f |_{-8} = +6 \\ \text{Slope } f |_{-2} = +\frac{3}{4} \end{cases}$$

find the global input-output rule that specifies f .

10-3. Let f be the *affine* function specified by the *boundary conditions*:

$$\text{AND} \begin{cases} f(x) |_{x \leftarrow +2} = +1 \\ f(x) |_{x \leftarrow +5} = -8 \end{cases}$$

find Slope f , that is the slope of the global graph that specifies f .

10-4. Let $A_{a,b}$ be the *affine* function $A_{a,b}$ specified by the fact that:

$$\text{AND} \begin{cases} A_{a,b}(+4) = +3 \\ A_{a,b}(-6) = +8 \end{cases}$$

find the global input-output rule of $A_{a,b}$

10-5. Let f be the function *affine* function specified by the *boundary conditions*:

$$\text{AND } \begin{cases} \text{Height } f|_{+5} = +10 \\ \text{Height } f|_{-5} = +4 \end{cases}$$

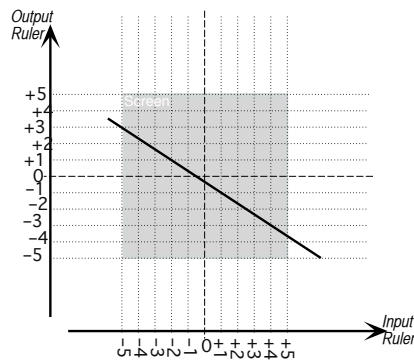
find the *global input-output rule* that specifies f .

10-6. Let f be the function function specified by the *global rule*:

$$x \xrightarrow{f} f(x) = +\frac{3}{2}x - 3$$

find its global graph.

10-7. Let f be the function specified by the *global quantitative graph*



find the *global input-output rule* that specifies f

10-8. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -5.6x - 16.8$$

find the input(s), if any, for which the function f returns *positive* outputs.