MATH 161 WORKOUT 5 NAME: _____

[Run: 10/28/2012 at 22:40. Order of Checkable Items: List.]

5-1. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -123.73x^{+6}$$

and given inputs that are $-large$, what is the *sign-size* of the outputs?

5-2. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -324.08^{-7}$$

and given inputs that are $+large$, what is the *sign-size* of the outputs?

5-3. Given the function HAT that is specified by the global input-output rule

$$x \xrightarrow{HAT} HAT(x) = -295.29x^{+6}$$

and given inputs that are $+small$, what is the *sign-size* of the outputs?

5-4. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -671.67x^{-4}$$

and given inputs that are $-small$, find the *sign-size* of the outputs of f.

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

$$x \xrightarrow{f} f(x) = +945.77x^{+4}$$

and given inputs that are $-large$, find the *place* of the corresponding local graph.

5-6. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +71.65x^{-4}$$

and given inputs that are $-large$, find the *place* of the local graph of f.

5-7. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -82.47x^{+7}$$

and given inputs that are $+small$, find the *place* of the local graph.

5-8. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +82.47x^{-7}$$

and given inputs that are $+small$, find the *place* of the corresponding local graph.

5-9. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -52.18x^{+5}$$

what is its Local graph$f\,|_{\text{near } +\infty}$

5-10. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -215.56x^{-7}$$

find the *local graph* of f near $-\infty$.

5-11. Given the function MAT that is specified by the global input-output rule

$$x \xrightarrow{MAT} MAT(x) = -42.89x^{+3}$$

find the *local graph* of MAT near ∞.

5-12. Given the function QAT that is specified by the global input-output rule

$$x \xrightarrow{QAT} QAT(x) = -49.17x^{-6}$$

find the *local graph* of QAT near ∞.

5-13. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -876.54x^{+5}$$

what is Local graph$f\mid_{\text{near } 0^-}$

5-14. Given the function KUT that is specified by the global input-output rule

$$x \xrightarrow{KUT} KUT(x) = -34.04x^{-5}$$

find the *local graph* of KUT near 0^-.

5-15. Given the function QOT that is specified by the global input-output rule

$$x \xrightarrow{QOT} QOT(x) = -824.54x^{+4}$$

find the *local graph* of QOT near 0?

5-16. Given the function $KNOT$ that is specified by the global input-output rule

$$x \xrightarrow{KNOT} KNOT(x) = +9877.23x^{-3}$$

find the *local graph* of $KNOT$ near 0?

5-17. Given the function f specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +468.72x^{+4}$$

what is Height-sign $f\,|_{\text{near }\infty}$

5-18. Let MIA be the function specified by global input-output rule

$$x \xrightarrow{MIA} MIA(x) = +212.84^{-4}$$

find Height-sign$MIA|_{\text{near }\infty}$

5-19. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -548.22^{+9}$$

what is Height-sign $f\,|_{\text{near }0}$

5-20. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -84.29x^{-9}$$

what is Height-sign $f\,|_{\text{near } 0}$

5-21. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +654.45x^{+6}$$

what is Slope-sign $f\,|_{\text{near } \infty}$

5-22. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -54.45x^{-2}$$

what is Slope-sign $f\,|_{\text{near } \infty}$

5-23. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -125.54x^{+7}$$

what is Slope-sign $f\,|_{\text{near } 0}$

5-24. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +543.12x^{-7}$$

what is Slope-sign $f\,|_{\text{near } 0}$

5-25. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +564.55x^{+5}$$

what is Concavity-sign $f\,|_{\text{near } \infty}$

5-26. Given the function TIA specified by the global input-output rule

$$x \xrightarrow{TIA} TIA(x) = -18.81x^{-5}$$

find Concavity-sign$TIA|_{\text{near } \infty}$.

5-27. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -654.73x^{+2}$$

what is Concavity-sign $f\,|_{\text{near } 0}$

5-28. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +22.07x^{-2}$$

what is Concavity-sign $f\,|_{\text{near } 0}$