MATH 161 REVIEW III Questions

[Run: 04/02/2013 at 21:6 Seed: 1185. Order of Checkable Items: List.]

III-1. Given the function $ROCCO$ specified by the global input-output rule

$$x \xrightarrow{ROCCO} ROCCO(x) = \frac{x^2+4}{x^2-4}$$

find the approximate local input-output rule of $ROCCO$ near ∞ for concavity-sign.

III-2. Given the function $RILAH$ specified by the global input-output rule

$$x \xrightarrow{RILAH} RILAH(x) = \frac{-4x+1}{+12x^4-x^3+6}$$

find the Height sign of $RILAH$ near ∞.

III-3. Given the function $ROLLO$ specified by the global input-output rule

$$x \xrightarrow{ROLLO} ROLLO(x) = \frac{x+1}{x^3-1}$$

find Slope sign of $ROLLO$ near ∞.

III-4. Given the function $REDUX$ whose global input-ouput rule is

$$x \xrightarrow{REDUX} REDUX(x) = \frac{x-1}{x^3-8}$$

find the local graph of $REDUX$ near ∞

III-5. Given the function $ROAR$ specified by the global input-output rule

$$x \xrightarrow{ROAR} ROAR(x) = \frac{x^2+1}{x^2-1}$$

find the local graph of $ROAR$ near ∞.

III-6. Given the function $RATON$ specified by the global input-output rule

$$x \xrightarrow{RATON} RATON(x) = \frac{x-1}{x^3-8}$$

find the approximate input-output local rule for graph near $+2$

III-7. Given the function $RORY$ specified by the global input-output rule

$$x \xrightarrow{RORY} RORY(x) = \frac{-x^2}{x^2-4}$$

find the local graph of $RORY$ near $+2$.

III-8. Given the function $RAMOS$ specified by the global input-output rule

$$x \xrightarrow{RAMOS} RAMOS(x) = \frac{x^2-5}{(x-1)^2}$$

find the Concavity-sign of $RAMOS$ near $+1$.

III-9. Given the function $REILL$ specified by the global input-output rule

$$x \xrightarrow{REILL} REILL(x) = \frac{x^3 - 10}{x^3 - 8}$$

find the Slope sign of $REILL$ near $+2$.

III-10. Given the function $RURAL$ specified by the global input-output rule

$$x \xrightarrow{RURAL} RURAL(x) = \frac{x^2 - 5}{(x-1)^2}$$

find the Height sign of $RURAL$ near $+1$.

III-11. Given the function $RADON$ whose global input-ouput rule is

$$x \xrightarrow{RADON} RADON(x) = \frac{x - 1}{x^3 - 8}$$

find the approximate local input-output rule near $+1$ for graph

III-12. Given the function $REMY$ specified by the global input-output rule

$$x \xrightarrow{REMY} REMY(x) = \frac{-x^2 + 9}{x^2 - 6}$$

find the local graph near $+3$.

III-13. Given the function $RAYON$ whose global rule is

$$x \xrightarrow{RAYON} RAYON(x) = \frac{x - 15}{x^3 - 8}$$

find the approximate local input-output rule near $+1$ for graph

III-14. Given the function $RARA$ specified by the global input-output rule

$$x \xrightarrow{RARA} RARA(x) = \frac{x^3 - 4}{x^2 - 4}$$

find the local graph of $RARA$ near $+1$.

III-15. Given the function $RHEA$ specified by the global input-output rule

$$x \xrightarrow{RHEA} RHEA(x) = \frac{(x-2)(x-1)}{x^2 - 9}$$

find the ∞-height inputs of $RHEA$.

III-16. Given the function $JEAN$ whose global input-ouput rule is

$$x \xrightarrow{JEAN} JEAN(x) = \frac{x^3 + 8}{x}$$

what is the answer to the Essential Question?

III-17. Given the function $RHUMA$ specified by the global input-output rule

$$x \xrightarrow{RHUMA} RHUMA(x) = \frac{(x-2)(x-1)}{x^2 - 9}$$

locate the 0-height input(s) if any.

III-18. Given the function $RETA$ specified by the global input-output rule

$$x \xrightarrow{RETA} RETA(x) = \frac{x-1}{x^3-8}$$

how many Concavity-sign change inputs does $RETA$ have?

III-19. Given the function $REBA$ specified by the global input-output rule

$$x \xrightarrow{REBA} REBA(x) = \frac{x^2-4}{x}$$

how many Height-sign change inputs does $REBA$ have?

III-20. Given the function $RHINO$ specified by the global input-output rule

$$x \xrightarrow{RHINO} RHINO(x) = \frac{x^2}{x^2-4}$$

for which input(s), if any, is the output of $RHINO$ *positive*?