

MATH 161 WORKOUT 17 NAME: _____

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[Run: 11/19/2012 at 14:12. Order of Checkable Items: List.]

17-1. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = \frac{x^4 - 16}{(x - 2)(x + 3)}$$

find the approximate local input-output rule near +2 for graphing.

17-2. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = \frac{x^3 - 8}{(x - 2)(x + 3)^2}$$

find the approximate local input-output rule near +2 for graphing.

17-3. Let the function f be specified by the global input-output rule

$$x \xrightarrow{f} f(x) = \frac{x^3 + 8}{x^2 + 27}$$

find the approximate local input-output rule near -2 for graphing.

17-4. Let f be the function specified by the global input-output rule

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

find the Height sign near $+2$.