

MATH 161 WORKOUT 11 NAME: _____

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[Run: 02/27/2013 at 13:28. Order of Checkable Items: List.]

11-1. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -3x^2 + 6x - 4$$

find the local input-output rule of f near ∞ .

11-2. Let f be the function specified by the global input-output rule

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

find the local graph of f near ∞ .

11-3. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +2x^2 - 3x + 7$$

find the height-sign, the slope-sign and the concavity-sign of f near ∞ .

- 11-4.** Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -5x^2 - 2x + 4$$

find the local input-output rule of f near -3 .

- 11-5.** Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +3x^2 + 6x - 4$$

find the local input-output rule of f near -1 .

- 11-6.** Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +2x^2 + 5x - 3$$

find the local input-output rule of f near -3 .

- 11-7.** Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -x^2 + 10x - 25$$

find the local input-output rule of f near $+5$.

11-8. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -3x^2 + 6x - 4$$

find the local input-output rule of f near -7 .

11-9. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -3x^2 + 6x - 4$$

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

11-10. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +x^2 + x - 6$$

find the local graph of f near -3 .

11-11. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -x^2 + 10x - 25$$

find the local graph of f near $+5$.

11-12. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = -3x^2 - 7x + 5$$

find the height-sign, the slope-sign and the concavity-sign of f near $+2$.

11-13. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +x^2 + 6x + 15$$

find the height-sign, the slope sign and the concavity-sign of f near -3 .

11-14. Let f be the function specified by the global input-output rule

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

find the height-sign, the slope sign and the concavity-sign of f near -3 .

11-15. Let f be the function specified by the global input-output rule

$$x \xrightarrow{f} f(x) = +x^2 + 6x + 9$$

find the height-sign, the slope sign and the concavity-sign of f near -3 .