

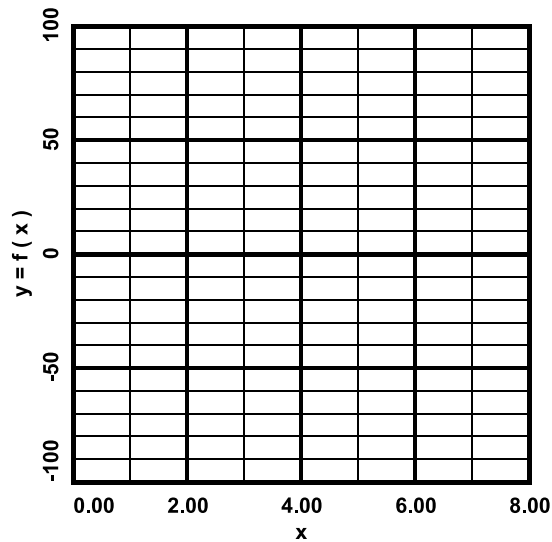
PRE-AP ALGEBRA 2

3B.6 CLASSWORK

For problems 1 and 2:

- Graph the indicated function $y = f(x)$ on the grid provided. With your calculator, make your window look like the grid.
- Use 2nd calc minimum and 2nd calc maximum with your calculator to find the coordinates of the local maxima and minima of $y = f(x)$. Graph the maxima and minima on the grid, and label their coordinates.
- State the portions of the domain where $y = f(x)$ is increasing and decreasing.

1) $f(x) = 2x^3 - 21x^2 + 36x + 54$



2) $f(x) = -3x^4 + 52x^3 - 300x^2 + 672x - 300$

