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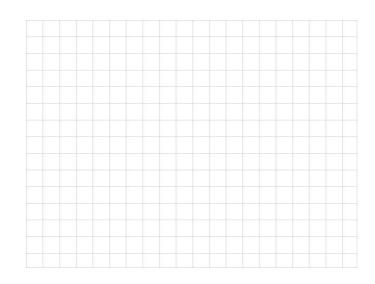
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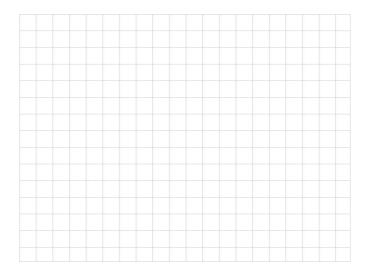
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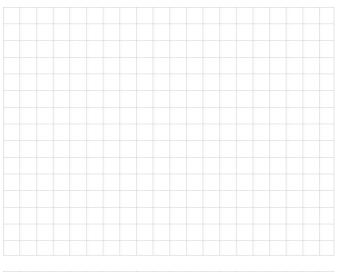
I -Functions with Absolute value and Radicals. Sketch the graph of each of the following functions : f_1 to f_6 in the same picture as f_0 .

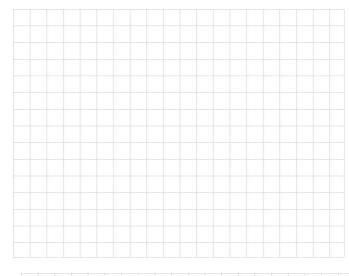
$$f_0(x) = \sqrt{x}$$
 ; $f_1(x) = \sqrt{-x}$; $f_2(x) = -\sqrt{-x}$; $f_3(x) = \sqrt{|x|}$

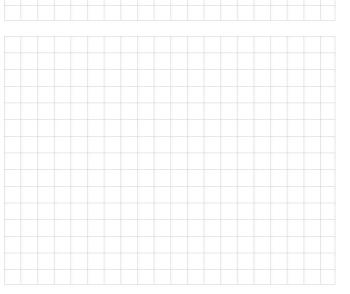
$$f_4(x) = -\sqrt{3-x} + 2$$
 ; $f_5(x) = \sqrt{|x-3|} + 2$; $f_6(x) = \sqrt{4x-8} - 2$

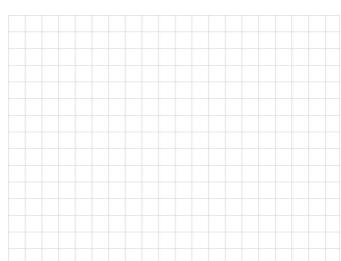












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II – Study the symmetries of each of the following functions: find their axes or center of symmetry and verify by showing the appropriate calculations:

$$y=x^3-6x^2+12x-9$$

$$y=x^4-2x^2+1$$

$$y = \frac{1}{8}(x^3 + 3x^2 - 13x - 15)$$

$$y = \frac{x^2 - 2x - 3}{x^2 - 2x - 8}$$