2D Graphics.

The objectives of the task: Strengthen the skills of construction 2d graphs.

Task Requirements: Plot the function f (x).

Instructions for performing:

You can use commands **plot2d** or **plot2d2**.

You need to create a script file with the function f(x) and to obtain a graph, then you need to do a scan the graph and send me the script file and thescan of graph.

Variants of tasks.

$$\begin{array}{ll} 1. \ f(x) = \frac{1.2x^3 + x^2 - 2.8x - 1}{x^2 - 1}.\\ 2. \ f(x) = \frac{1.9x^3 - 2.8x^2 - 1.9x + 1}{3x^2 - 1}.\\ 3. \ f(x) = \frac{2x^2 - 5}{\sqrt{x^2 - 2}}.\\ 4. \ f(x) = \frac{4.1x^3 - 3.25x}{4x^4 - 1}.\\ 5. \ f(x) = \frac{x^2 - 11.5}{4x - 3}.\\ 6. \ f(x) = \frac{2.3x^2 - 7}{\sqrt{3x^2 - 4}}.\\ \end{array}$$

$$\begin{array}{ll} 7. \ f(x) = \sqrt[3]{(x - 4.5)^2(x + 2)}.\\ 8. \ f(x) = \sqrt[3]{(x - 4.5)^2(x + 2)}.\\ 8. \ f(x) = \sqrt[3]{(x - 5)^2} - \sqrt[3]{(x - 7)^2}.\\ 9. \ f(x) = \sqrt[3]{(x + 5)^2} - \sqrt[3]{(x - 7)^2}.\\ 10. \ f(x) = \sqrt[3]{(x^2 - x - 2)^2}.\\ 11. \ f(x) = \sqrt[3]{(x^2 - x - 2)^2}.\\ 12. \ f(x) = \sqrt[3]{(x + 5)^2} - \sqrt[3]{(x - 7)^2}.\\ 13. \ f(x) = \sqrt[3]{(x + 5)^2} - \sqrt[3]{(x - 7)^2}.\\ 14. \ f(x) = \sqrt[3]{(x + 5)^2} - \sqrt[3]{(x - 7)^2}.\\ 15. \ f(x) = \sqrt[3]{(x^2 - x - 6)^2}.\\ \end{array}$$

Evaluation criteria:

Plotting without errors - 2 points.

Available Comments - 0.5 points.

The presence of axis and graph labels - 0.5 points.

Maximum evaluation are **3 points**