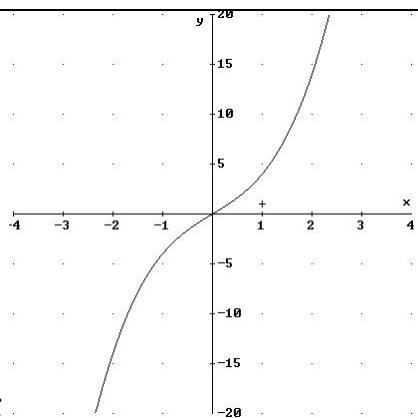


Studiare il grafico delle seguenti funzioni

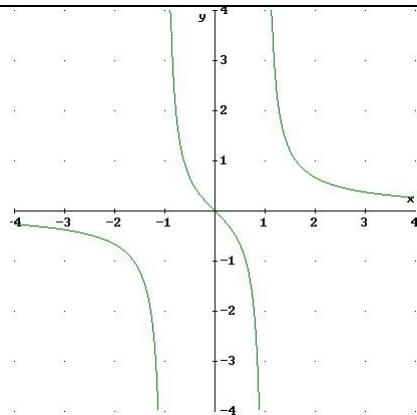
1

$$f(x) = x^3 + 3x$$



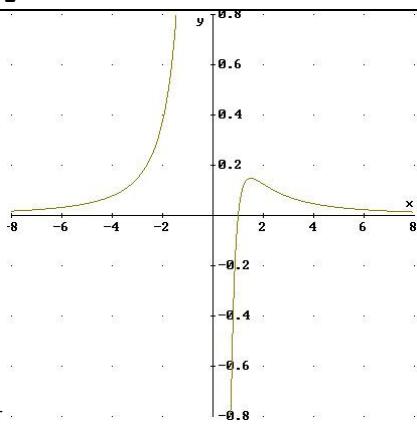
2

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



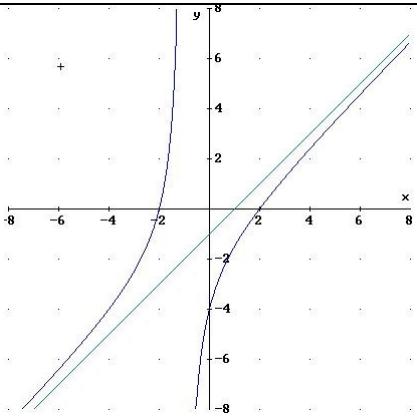
3

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

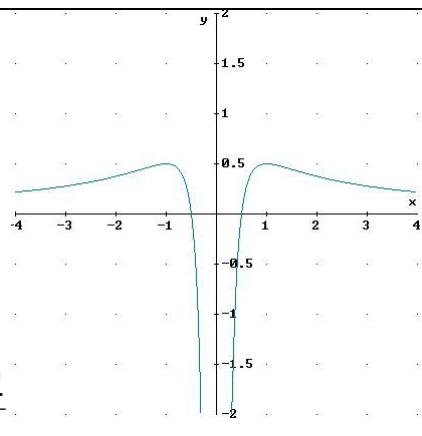


4

$$f(x) = \frac{x^2 - 4}{x + 1}$$

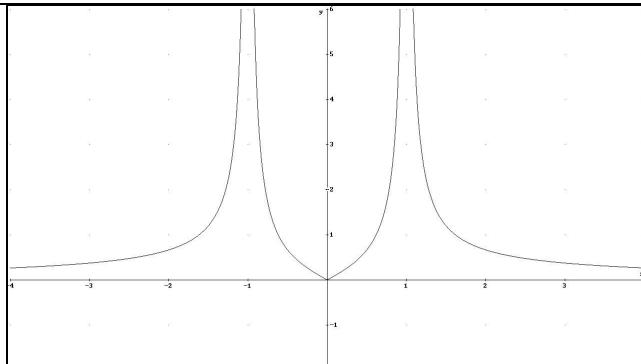


5



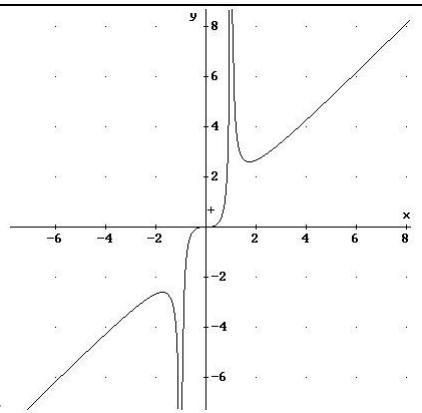
$$f(x) = \frac{2|x|-1}{2x^2}$$

6



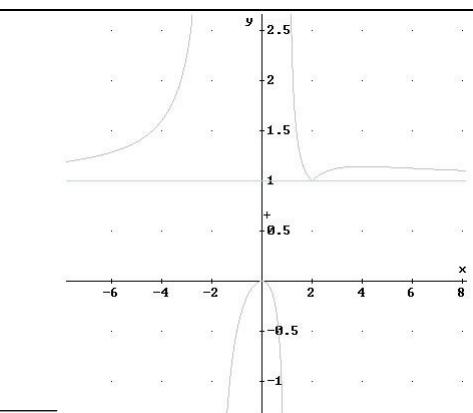
$$f(x) = \frac{|x|}{x^2 - 1}$$

7



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

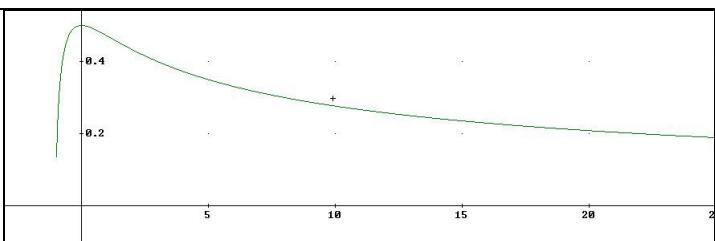
8



$$f(x) = \frac{x^2}{x^2 - |x - 2|}$$

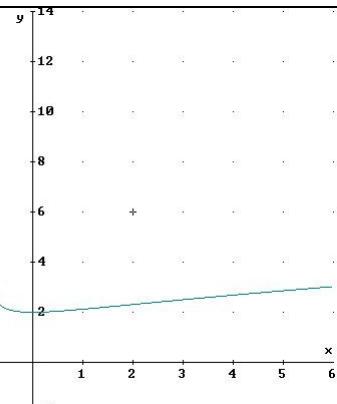
9

$$f(x) = \frac{\sqrt{x+1}}{x+2}$$



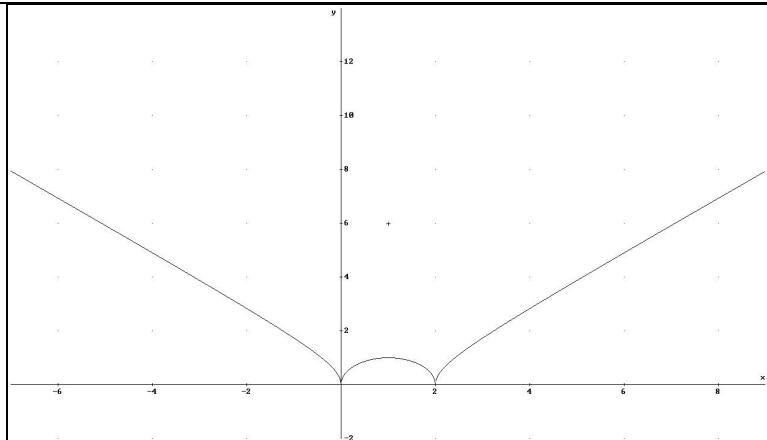
10

$$f(x) = \frac{x+2}{\sqrt{x+1}}$$



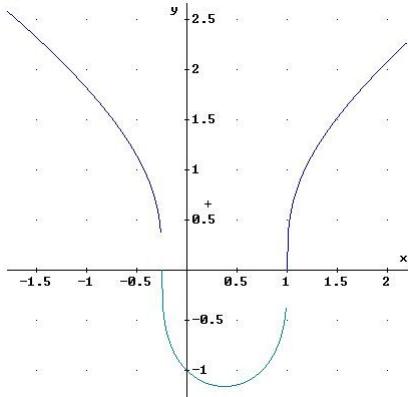
11

$$f(x) = \sqrt{|x^2 - 2x|}$$

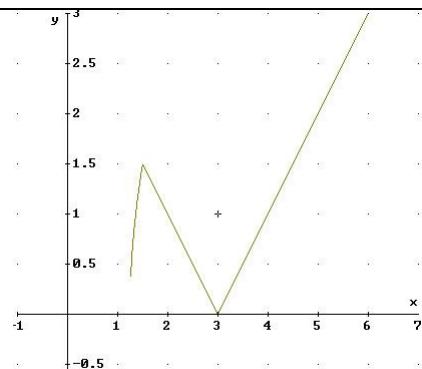


12

$$f(x) = \sqrt[3]{4x^2 - 3x - 1}$$

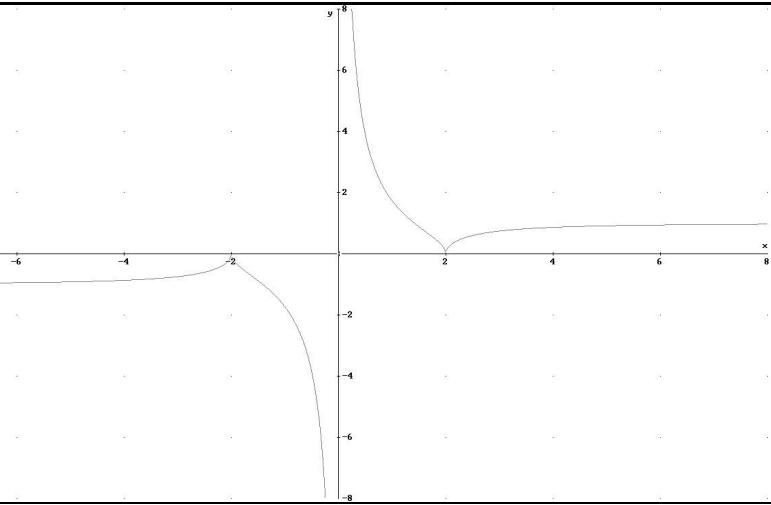


13



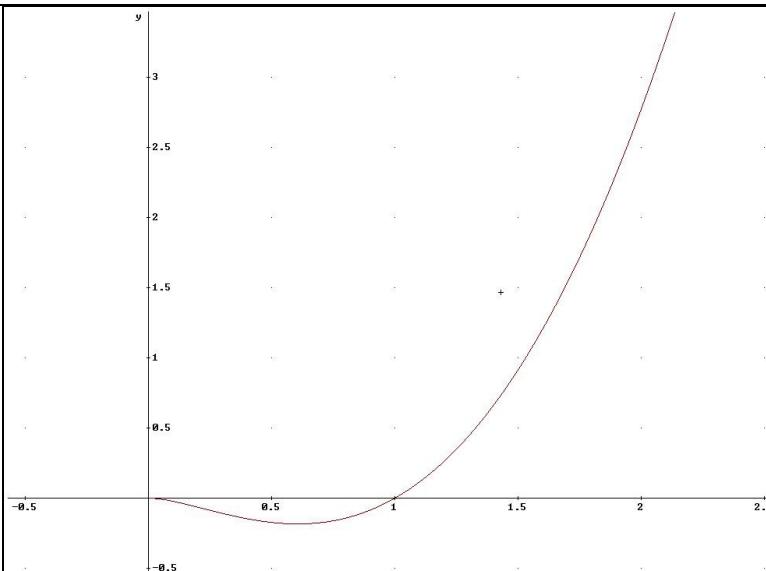
$$f(x) = \sqrt{x^2 - |6x - 9|}$$

14



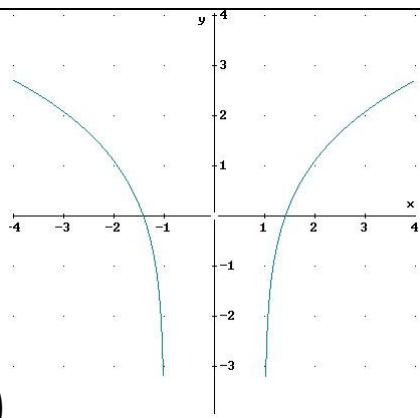
$$f(x) = \frac{\sqrt{|x^2 - 4|}}{x}$$

15



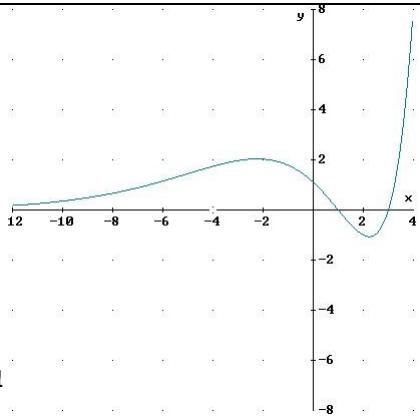
$$f(x) = x^2 \ln x$$

16



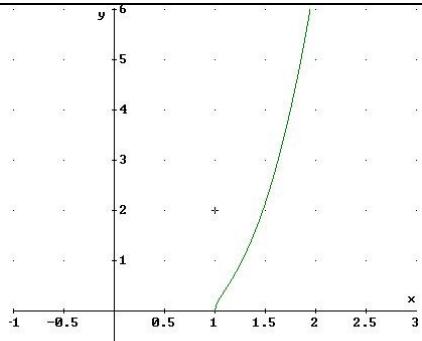
$$f(x) = \ln(x^2 - 1)$$

17



$$f(x) = (x^2 - 4x + 3)e^{\frac{1}{2}x-1}$$

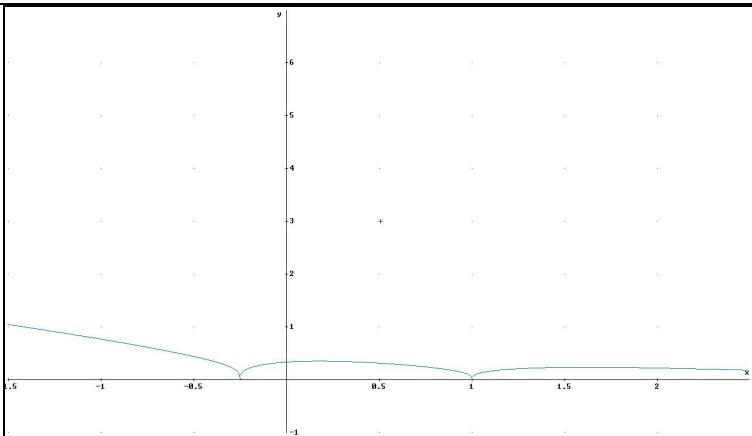
18



$$f(x) = x^3 \sqrt{\ln x}$$

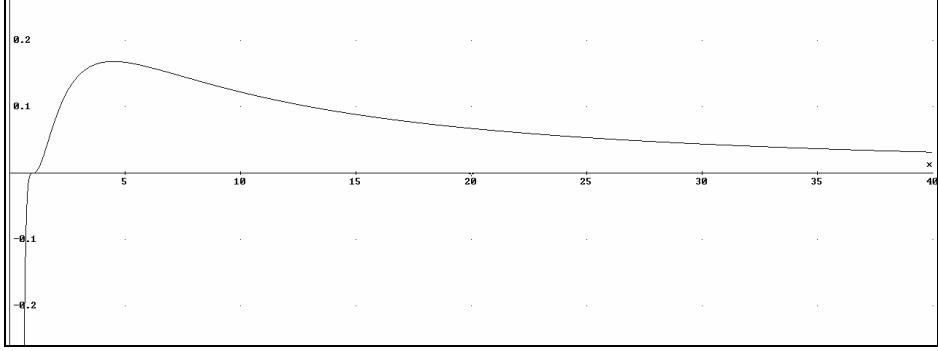
19

$$f(x) = \frac{\sqrt[3]{4x^2 - 3x - 1}}{e^x + 2}$$



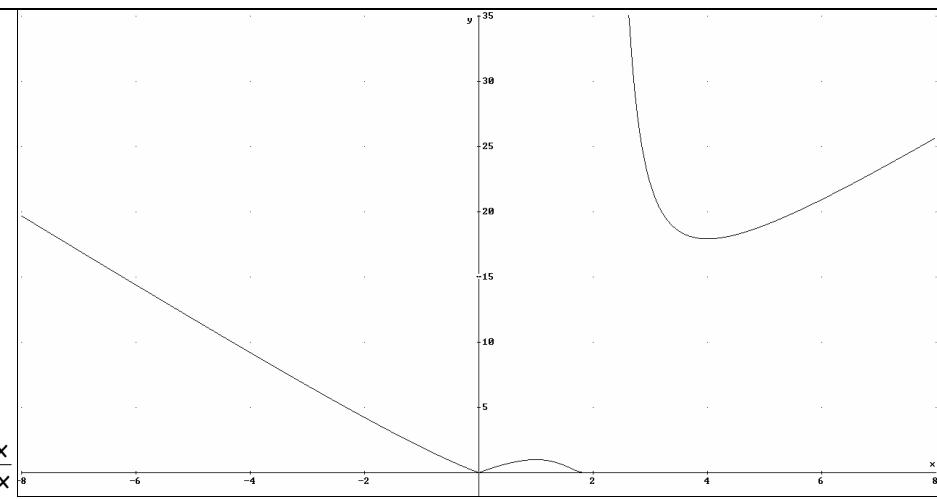
20

$$f(x) = \frac{\ln^3 x}{x^2}$$



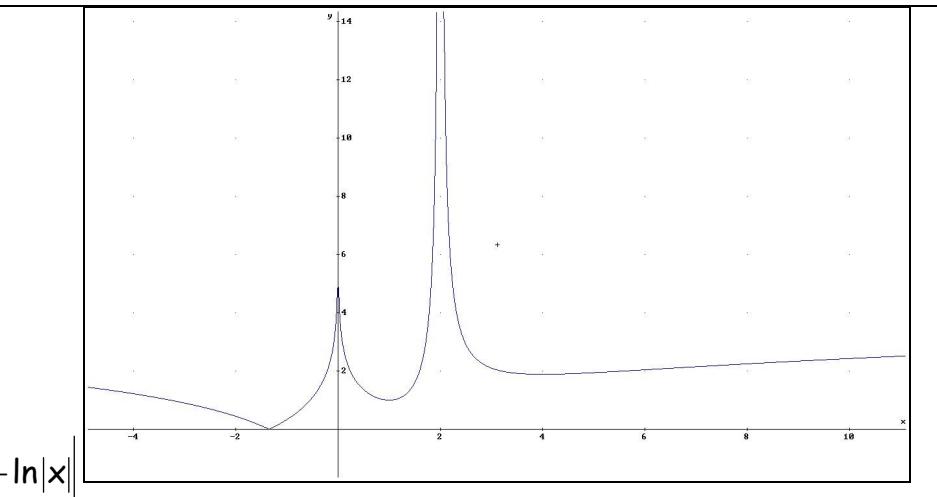
21

$$f(x) = \frac{x^2}{|x|} e^{\frac{1-x}{2-x}}$$



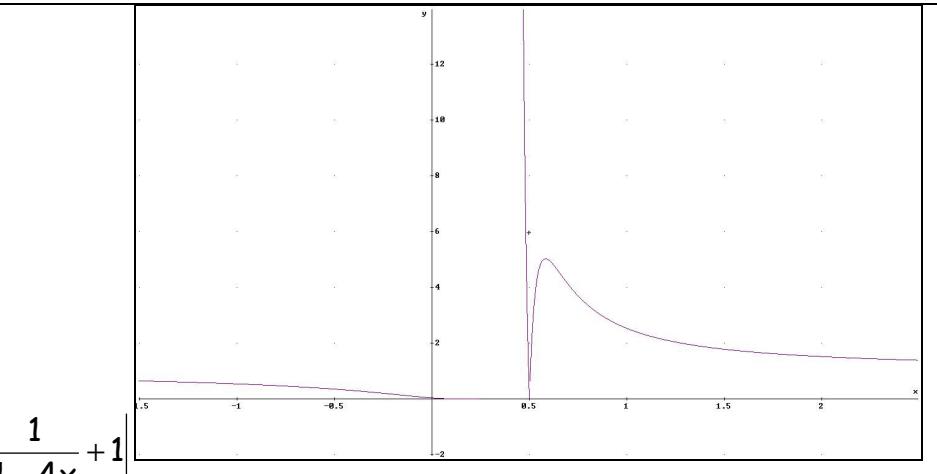
22

$$f(x) = \left| \frac{1}{2-x} - \ln|x| \right|$$



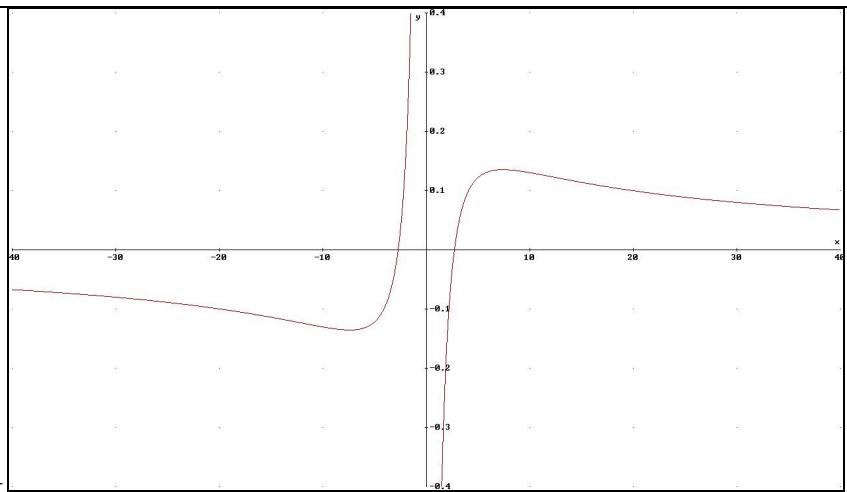
23

$$f(x) = e^{\frac{4}{4x-1}} \left| \frac{1}{1-4x} + 1 \right|$$



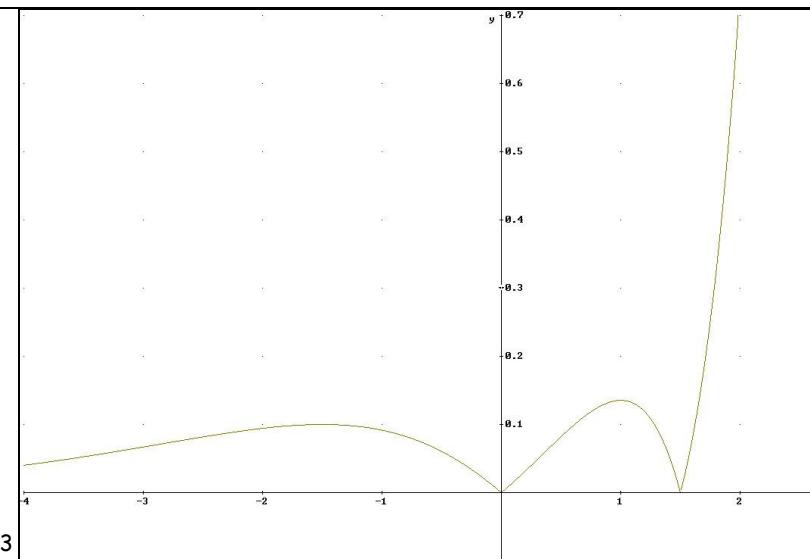
24

$$f(x) = \frac{\ln|x|-1}{x}$$



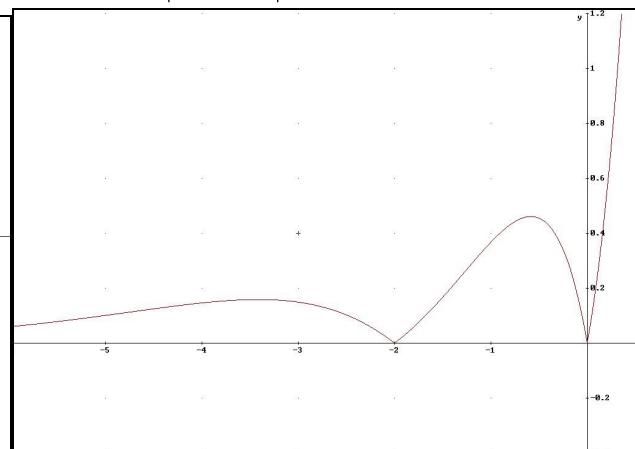
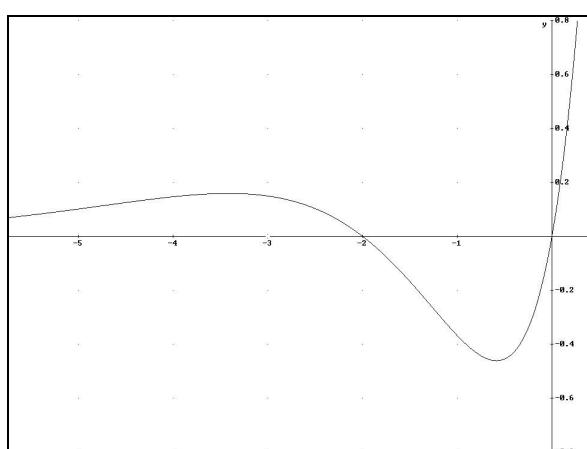
25

$$f(x) = |2x^2 - 3x| e^{x-3}$$



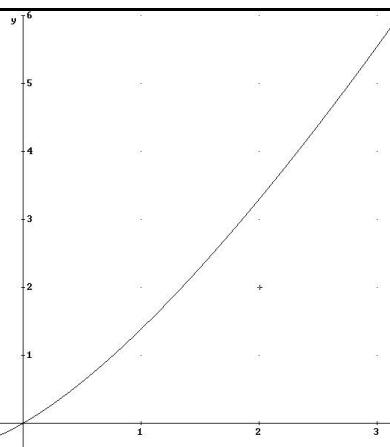
$$f(x) = (x^2 - 3x)e^x \text{ e si desuma il grafico di } g(x) = |x^2 - 3x|e^x$$

26



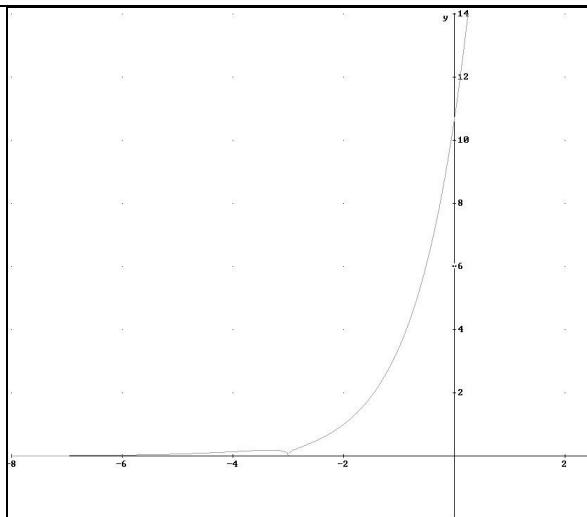
27

$$f(x) = (x+1)\ln(x+1)$$



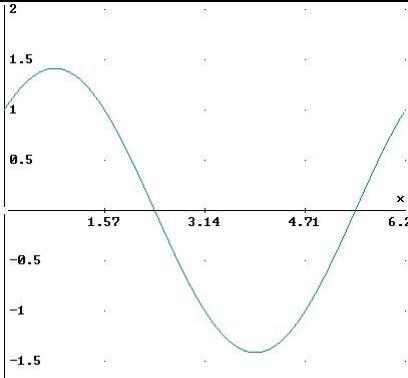
28

$$f(x) = e^{x+2} \cdot \sqrt[3]{x+3}$$



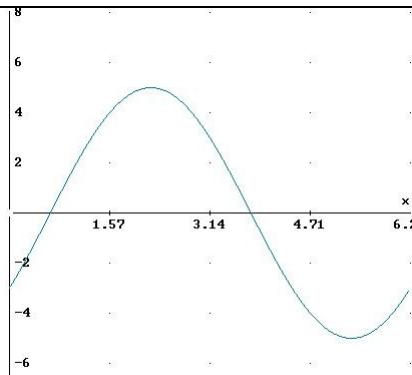
29

$$f(x) = \sin x + \cos x \quad x \in [0; 2\pi]$$



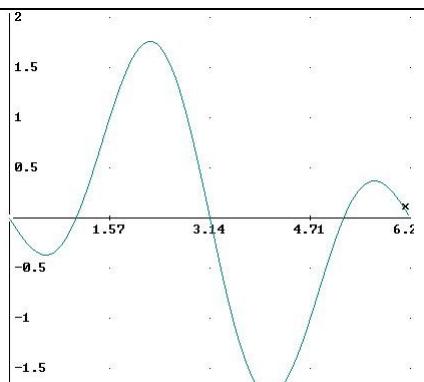
30

$$f(x) = 4\sin x - 3\cos x \quad x \in [0; 2\pi]$$



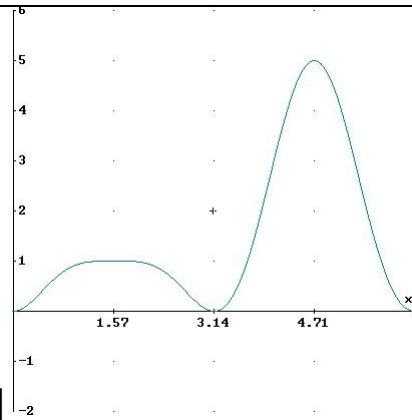
31

$$f(x) = \sin x - \sin 2x \quad x \in [0; 2\pi]$$



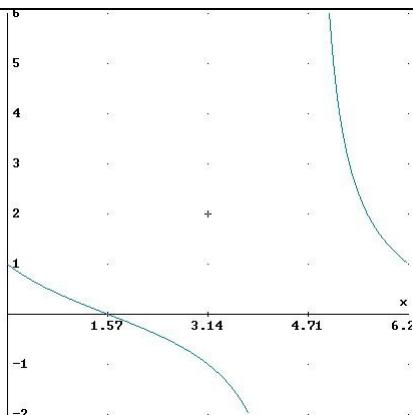
32

$$f(x) = 3\sin^2 x - 2\sin^3 x \quad x \in [0; 2\pi]$$



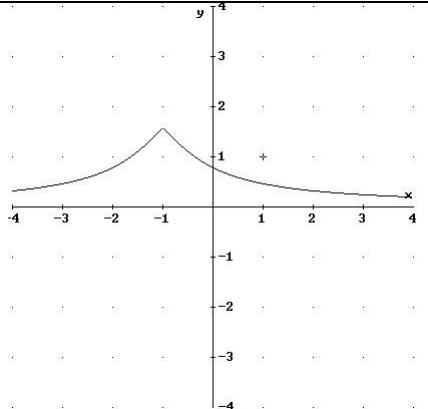
33

$$f(x) = \frac{1 - \sin x}{\cos x} \quad x \in [0; 2\pi]$$



34

$$f(x) = \arctg \frac{1}{|x+1|}$$



35

$$f(x) = \arctg \frac{x-1}{x+1}$$

