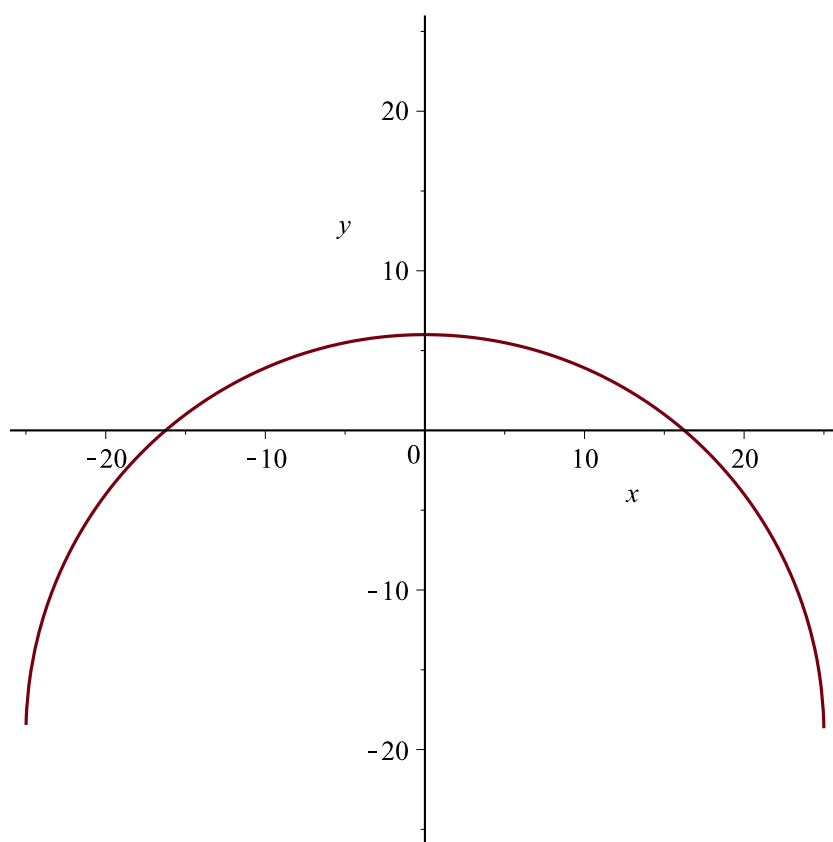
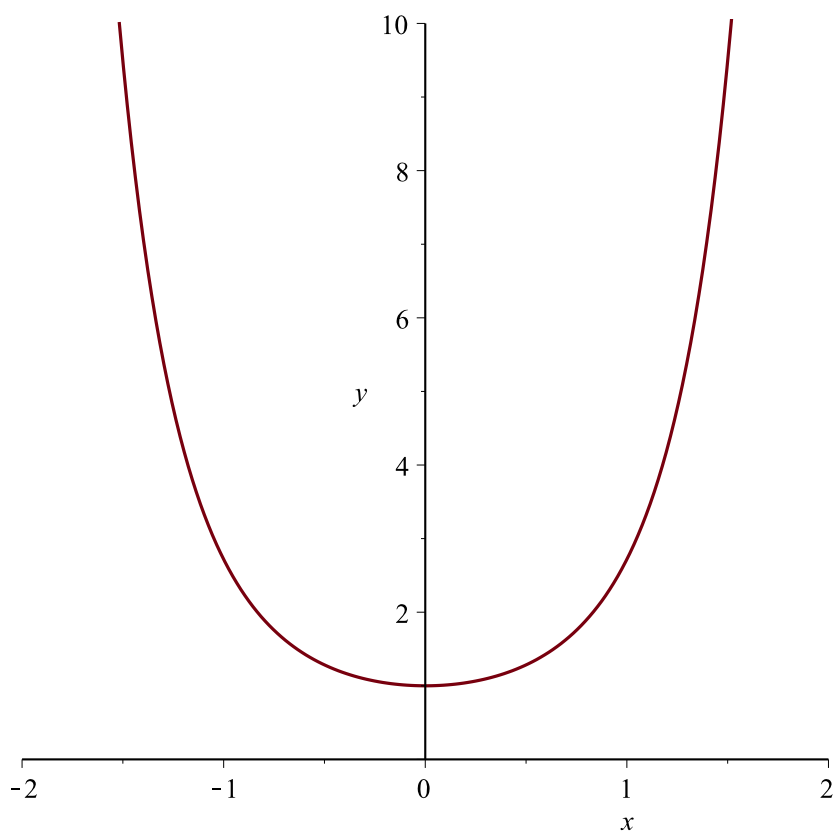


" 2 "

$$f := -\frac{(x-25)(x+25)}{\sqrt{-x^2+625}} - 19$$



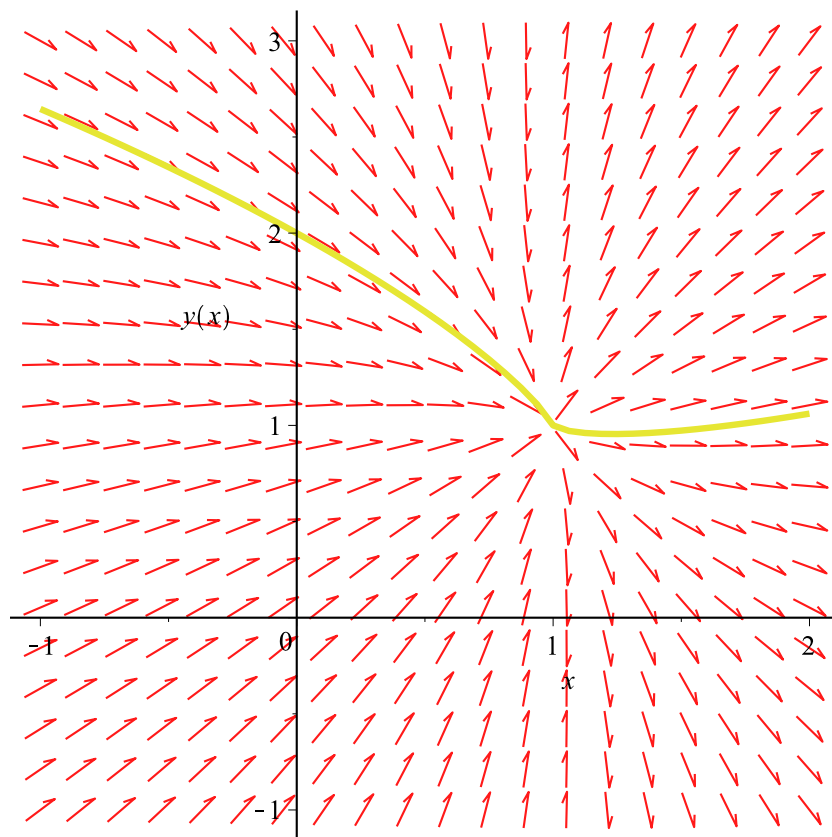
$$f := e^{x^2}$$



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$$sol := 4 \ln \left(- \frac{y(x) - 5 + 4x}{x - 1} \right) - 5 \ln \left(\frac{-y(x) + x}{x - 1} \right) - \ln(x - 1) - _CI = 0$$

$$dots := \{x = 1, y = 1\}$$



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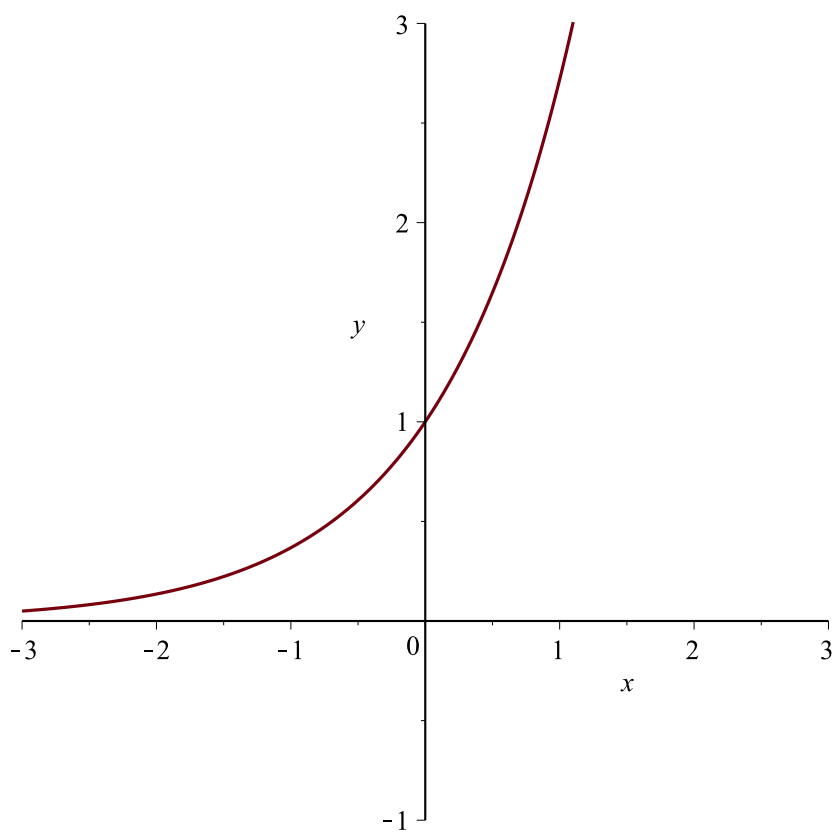
" 4 "

$$mark := D(y)(0) = 1$$

$$eq := \frac{d}{dx} y(x) + x y(x) = (1 + x) e^{-x} y(x)^2$$

$$sol := y(x) = \frac{1}{-2 e^{\frac{1}{2} x^2} + e^{-x}}, y(x) = \frac{1}{e^{-x}}$$

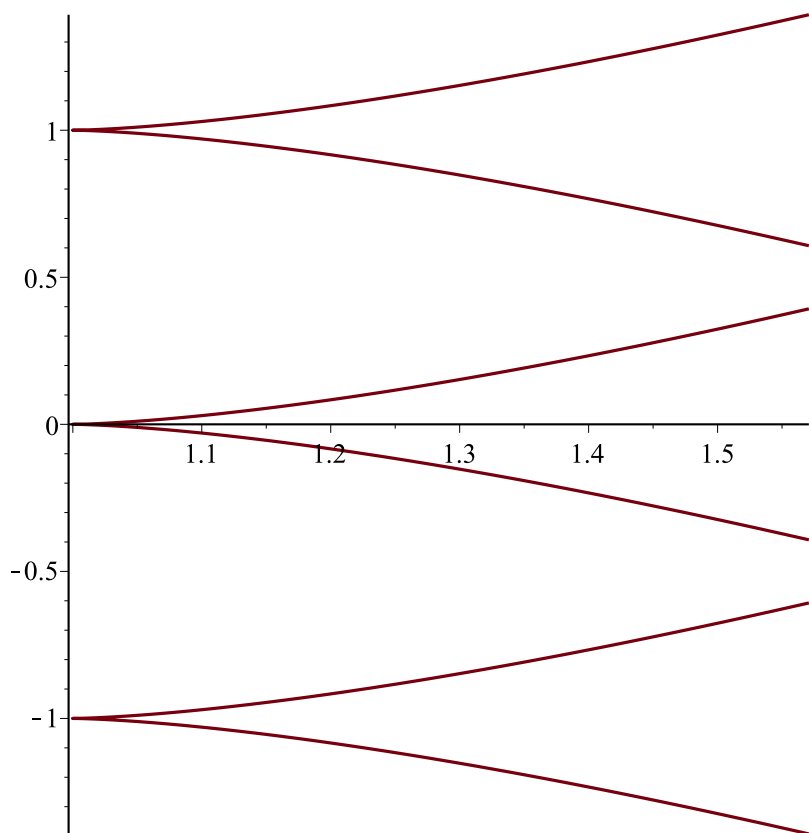
$$f := e^x$$



" 5 "

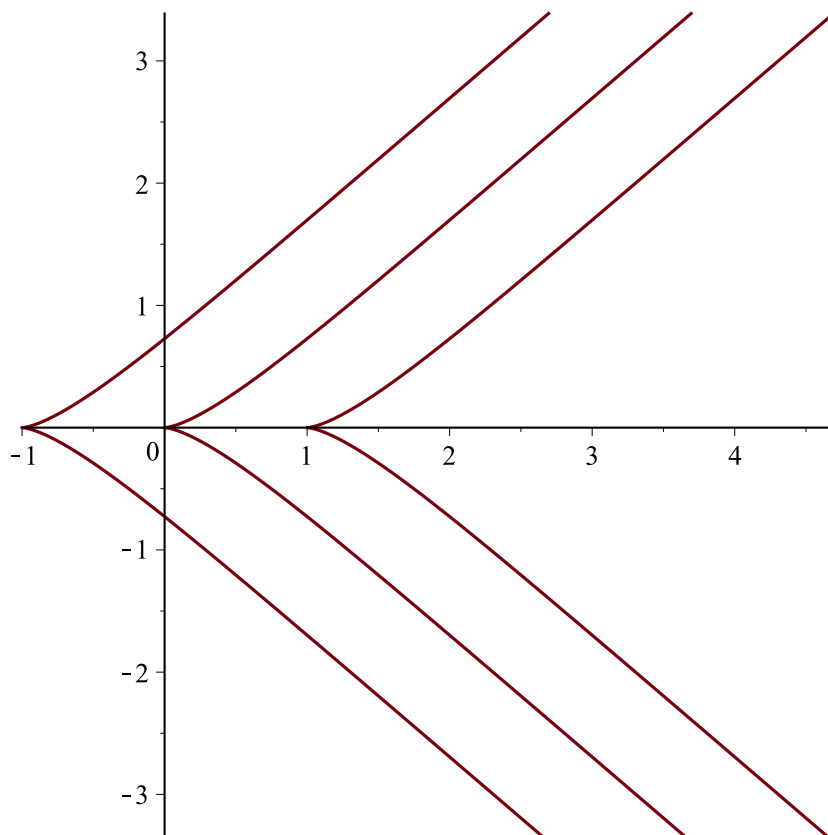
$$x := \sin(t) \, t + \cos(t)$$

$$y := -\frac{1}{2} \cos(t)^2 t + \frac{1}{4} \sin(t) \cos(t) + \frac{1}{4} t$$



$$y := \frac{1}{2} \ln\left(\frac{1+t}{1-t}\right) - t$$

$$x := -\frac{1}{2} \ln(-t^2 + 1)$$



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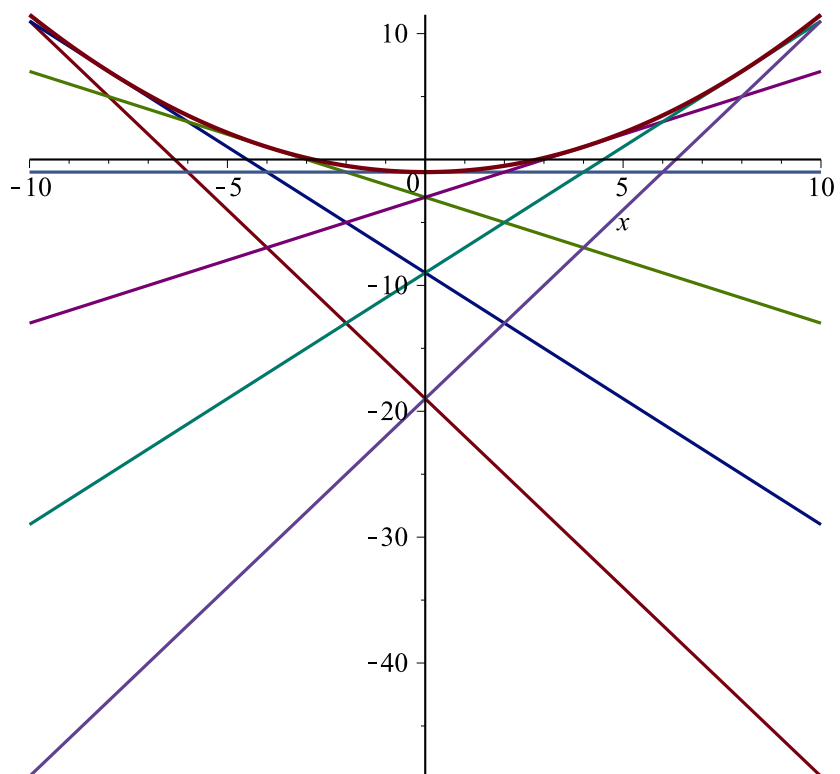
" 6 "

$$eq := y(x) = x \left(\frac{d}{dx} y(x) \right) + 2 \left(\frac{d}{dx} y(x) \right)^2 - 1$$

$$sol := y(x) = -\frac{1}{8} x^2 - 1, y(x) = 2_CI^2 +_CI x - 1$$

int_plots := PLOT(...)

sqplt := PLOT(...)



— Дискриминантная кривая

