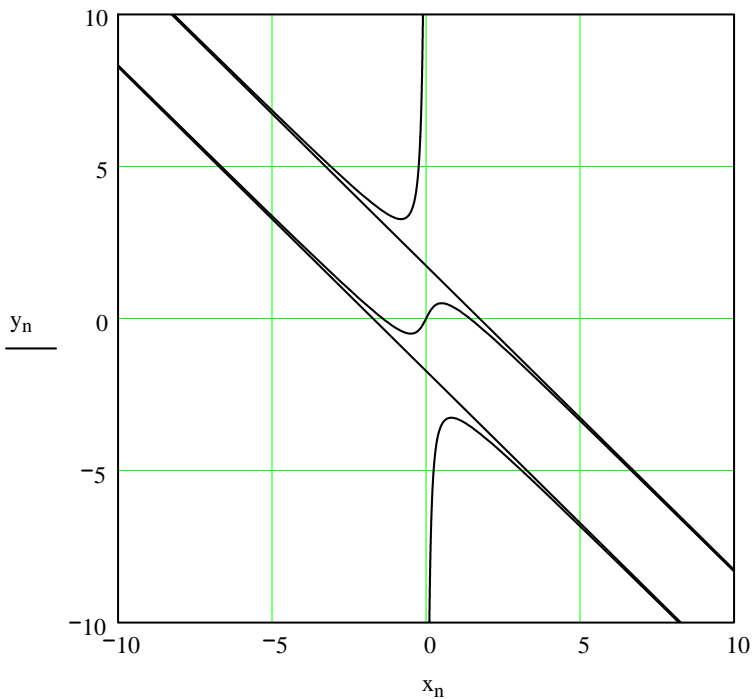


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Moscow State University, Department of physics, 20 oct 2008

$t_a := -10$ $t_b := 10$ $N := 1000$ $n := 0..N$ $t_n := t_a + \frac{t_b - t_a}{N} \cdot n$

$$fx1(t) := \frac{t}{3 - t^2} \quad fy1(t) := t \cdot \frac{(2 - t^2)}{3 - t^2}$$

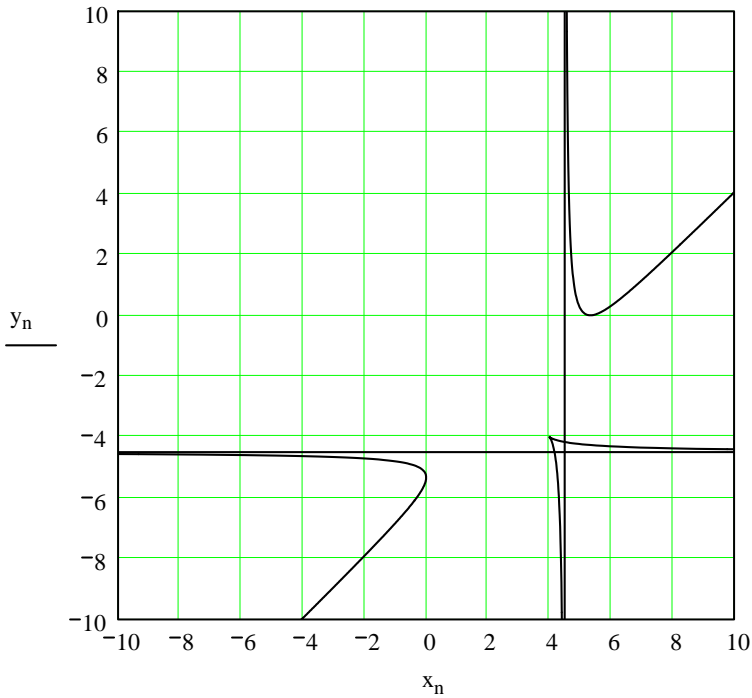
$$x_n := fx1(t_n) \quad y_n := fy1(t_n)$$



$t_a := -10$ $t_b := 10$ $N := 1001$ $n := 0..N$ $t_n := t_a + \frac{t_b - t_a}{N} \cdot n$

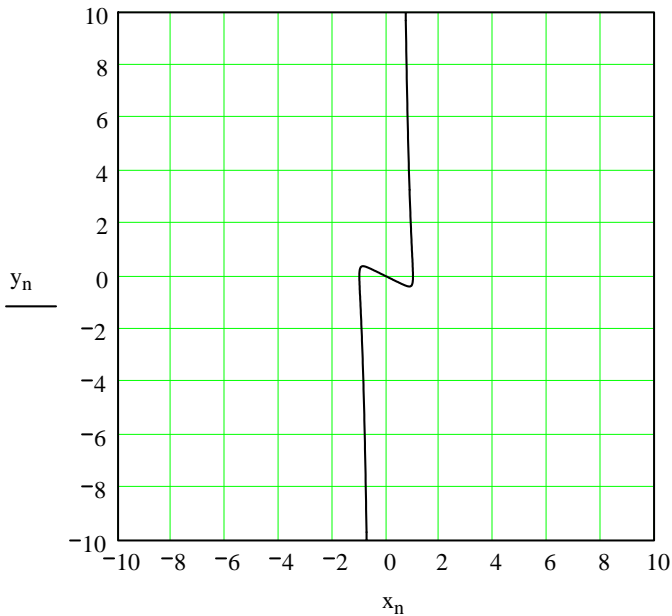
$$fx1(t) := \frac{(t+2)^2}{t+1} \quad fy1(t) := \frac{(t-2)^2}{t-1}$$

$$x_n := fx1(t_n) \quad y_n := fy1(t_n)$$



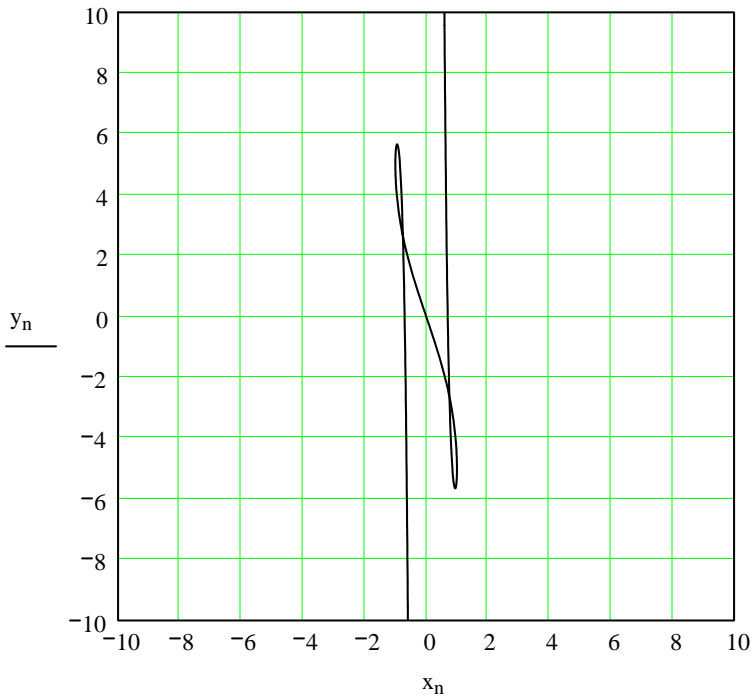
$$ta := -10 \quad tb := 10 \quad N := 1001 \quad n := 0..N \quad t_n := ta + \frac{tb - ta}{N} \cdot n$$

$$fx1(t) := \frac{2 \cdot t}{1 + t^2} \quad fy1(t) := t^3 - t \quad x_n := fx1(t_n) \quad y_n := fy1(t_n)$$



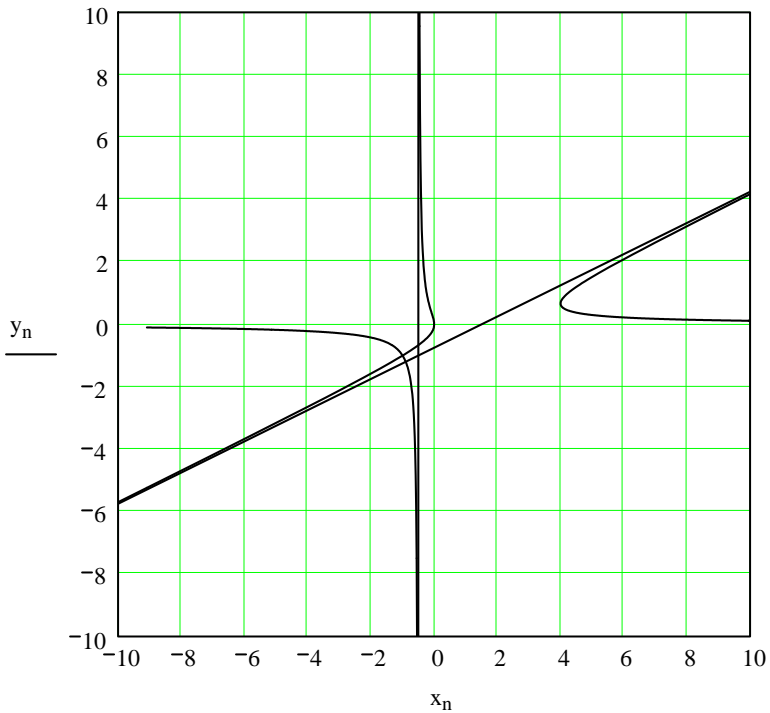
$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{2 \cdot t}{1 + t^2} \quad f_{y1}(t) := t^3 - 6 \cdot t \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$



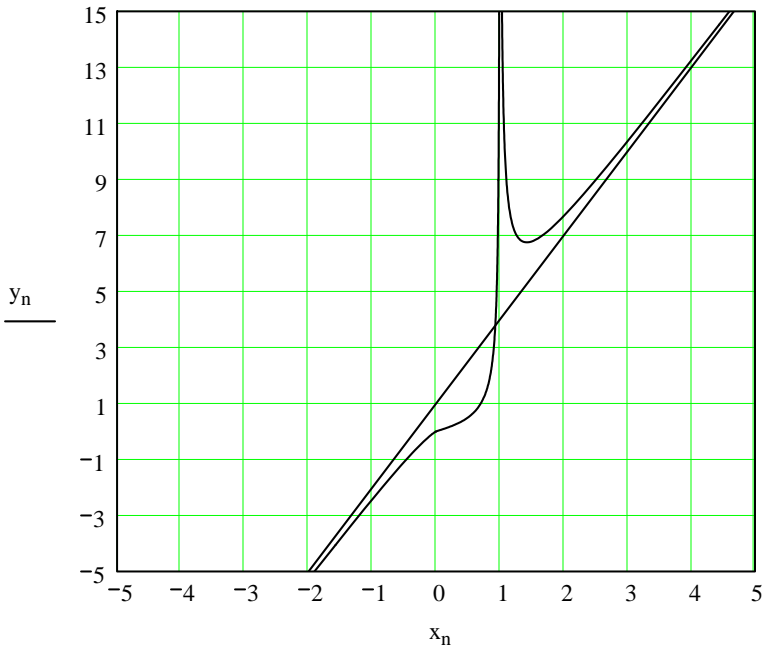
$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t^2}{t-1} \quad f_{y1}(t) := \frac{t}{t^2-1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$



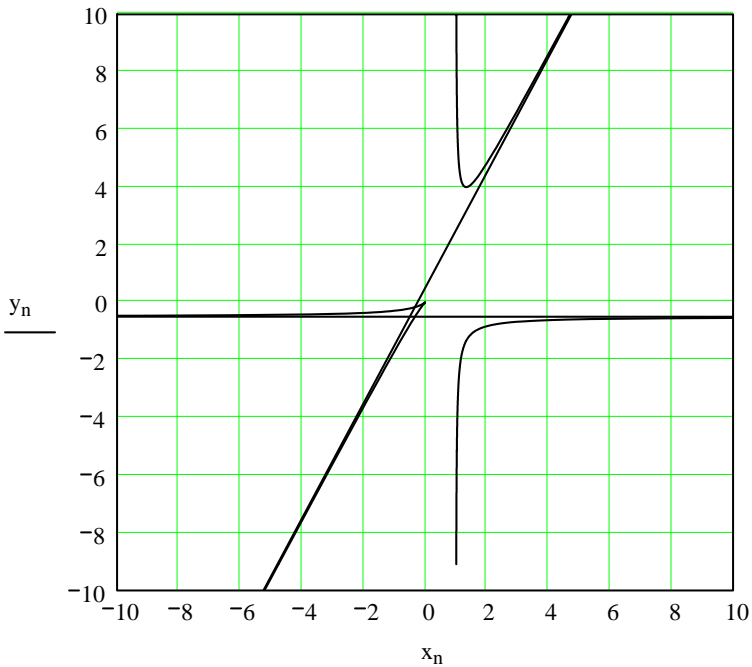
$$ta := -10 \quad tb := 10 \quad N := 1001 \quad n := 0..N \quad t_n := ta + \frac{tb - ta}{N} \cdot n$$

$$fx1(t) := \frac{t^3}{t^3 + 1} \quad fy1(t) := \frac{t^3}{t + 1} \quad x_n := fx1(t_n) \quad y_n := fy1(t_n)$$



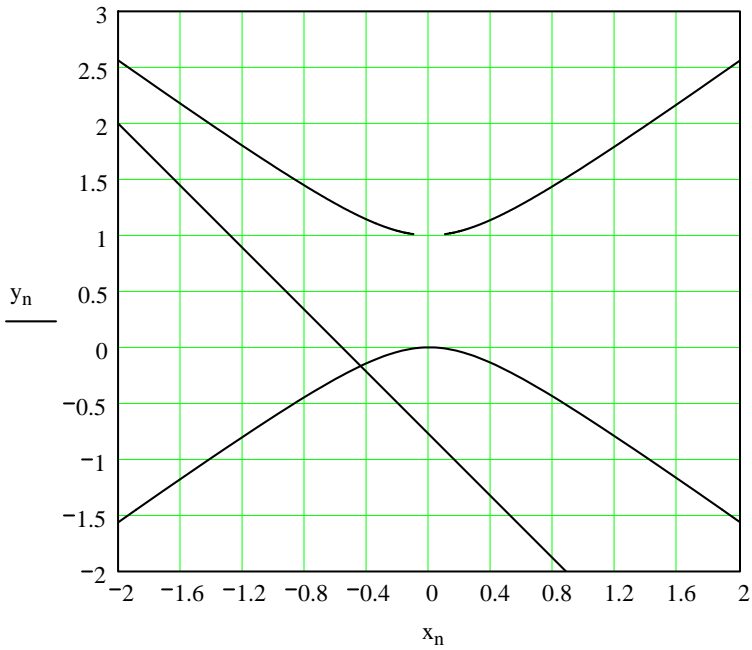
$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t^2}{t^2 - 1} \quad f_{y1}(t) := \frac{t^2}{t - 1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$



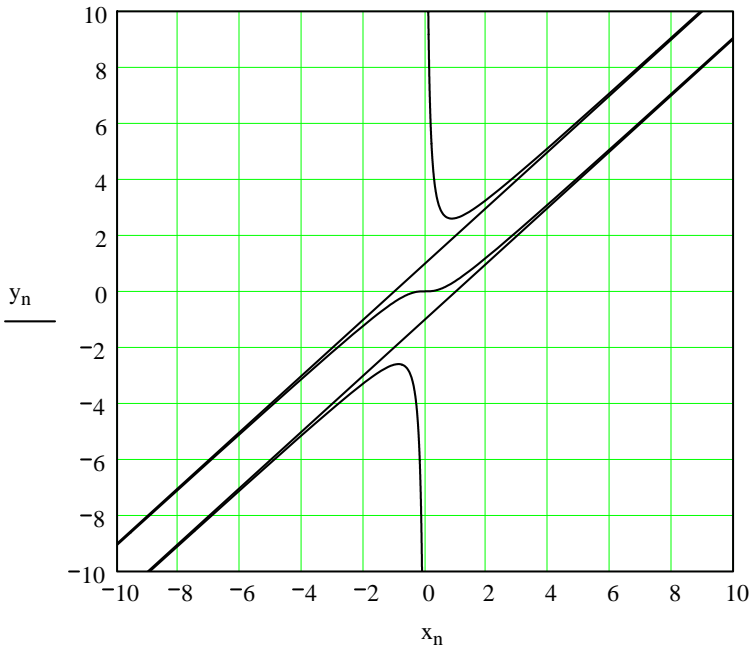
$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t}{t^2 - 1} \quad f_{y1}(t) := \frac{t^2}{t^2 - 1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$



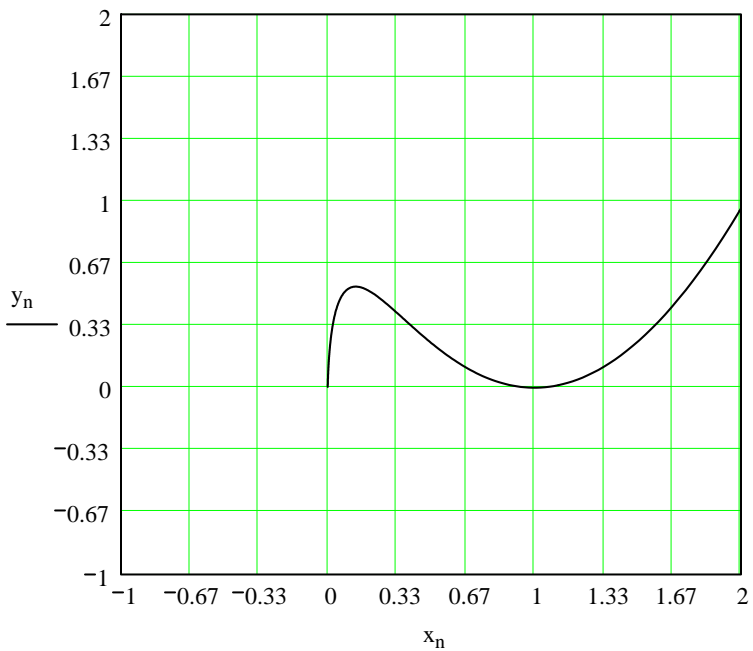
$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t}{t^2 - 1} \quad f_{y1}(t) := \frac{t^3}{t^2 - 1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$



$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

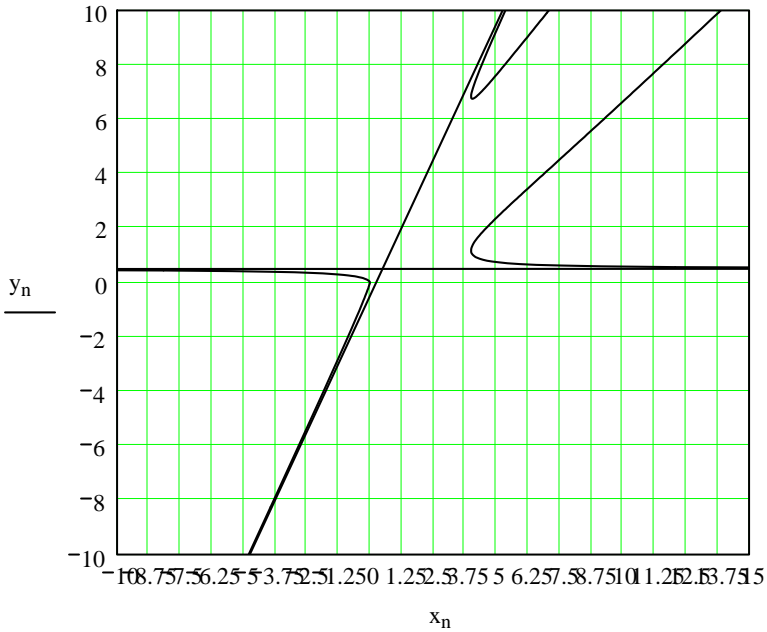
$$f_{x1}(t) := e^t \quad f_{y1}(t) := t^2 \cdot e^t \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$

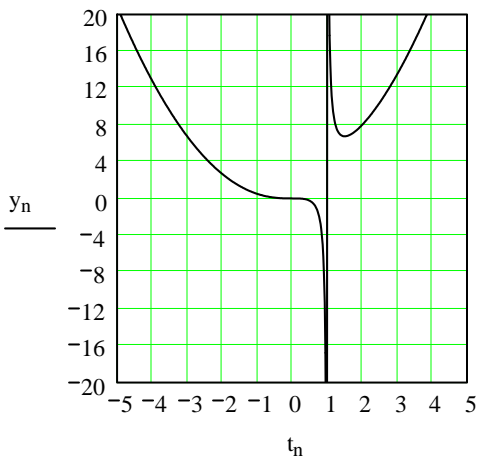
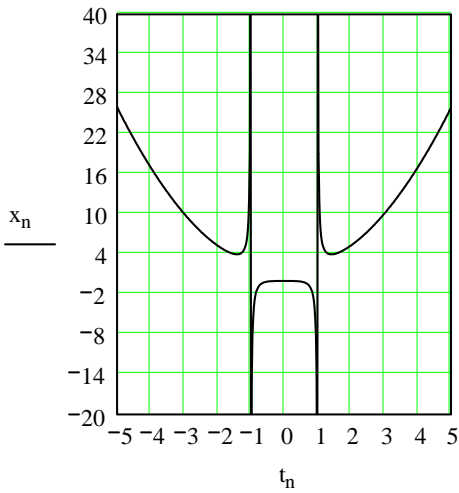


exam2004apr, a

$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_x(t) := \frac{t^4}{t^2 - 1} \quad f_y(t) := \frac{t^3}{t - 1} \quad x_n := f_x(t_n) \quad y_n := f_y(t_n)$$

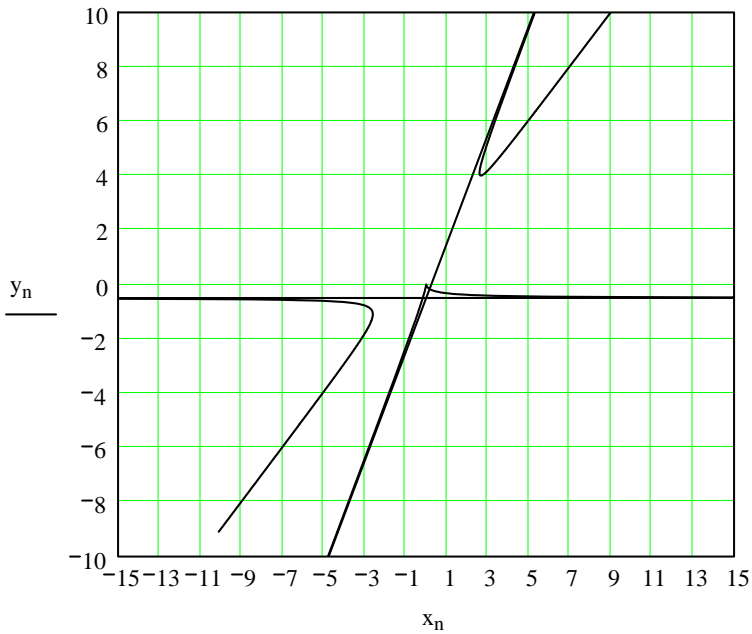


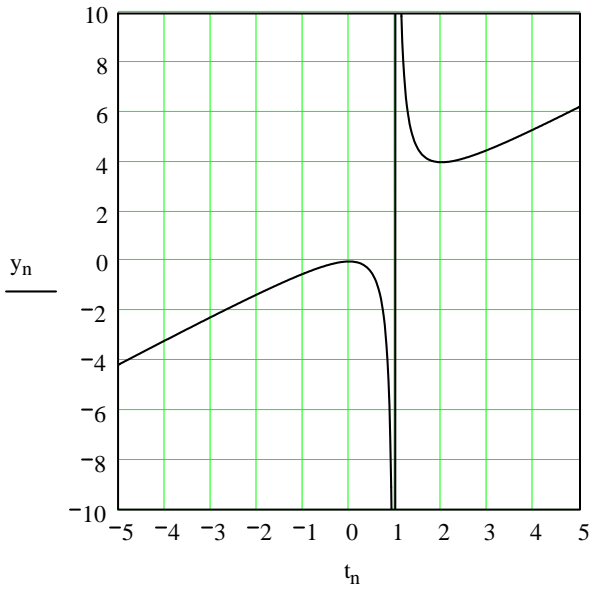
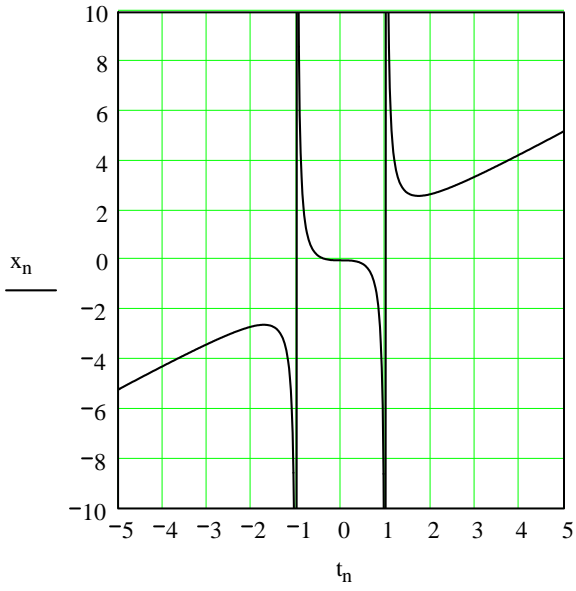


exam2004apr, b

$t_a := -10$ $t_b := 10$ $N := 1001$ $n := 0..N$ $t_n := t_a + \frac{t_b - t_a}{N} \cdot n$

$$f_x(t) := \frac{t^3}{t^2 - 1} \quad f_y(t) := \frac{t^2}{t - 1} \quad x_n := f_x(t_n) \quad y_n := f_y(t_n)$$

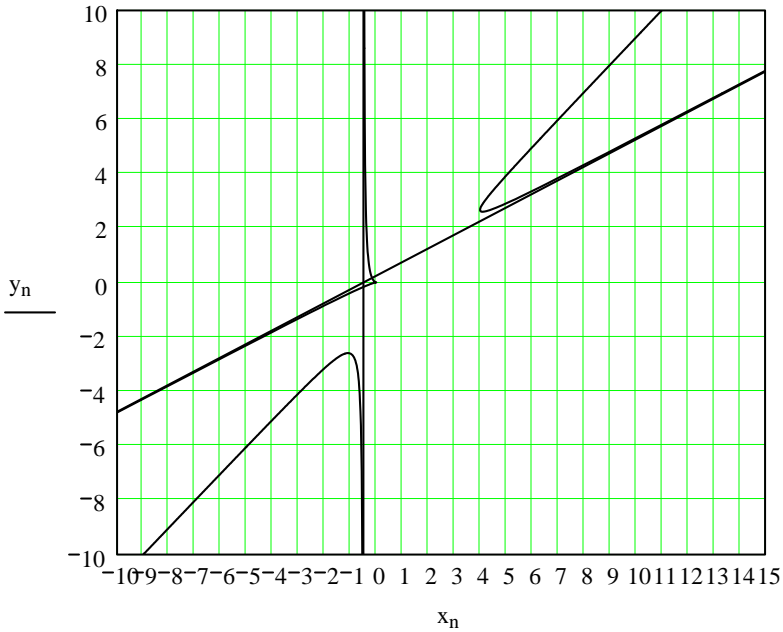


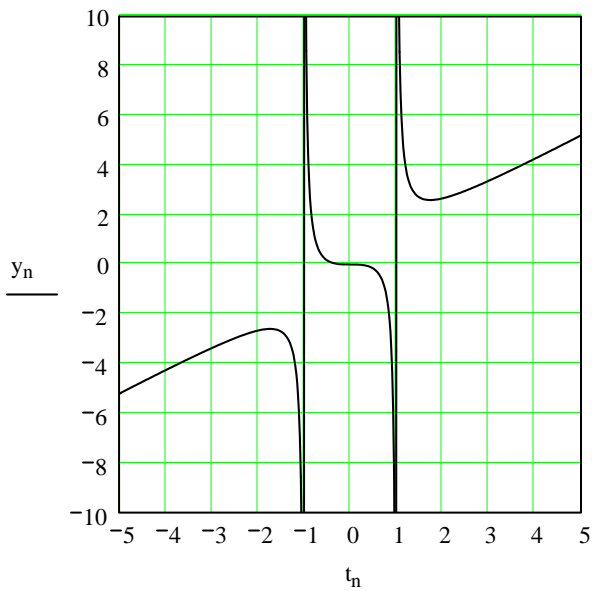
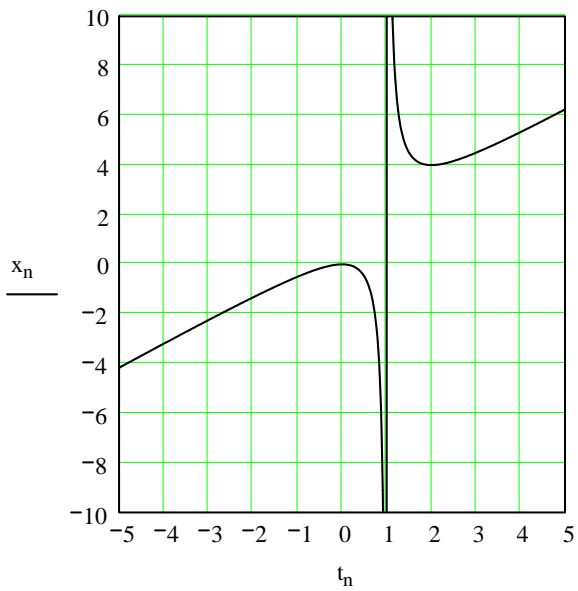


exam2004apr, d

$$ta := -10 \quad tb := 10 \quad N := 1001 \quad n := 0..N \quad t_n := ta + \frac{tb - ta}{N} \cdot n$$

$$fx1(t) := \frac{t^2}{t - 1} \quad fy1(t) := \frac{t^3}{t^2 - 1} \quad x_n := fx1(t_n) \quad y_n := fy1(t_n)$$

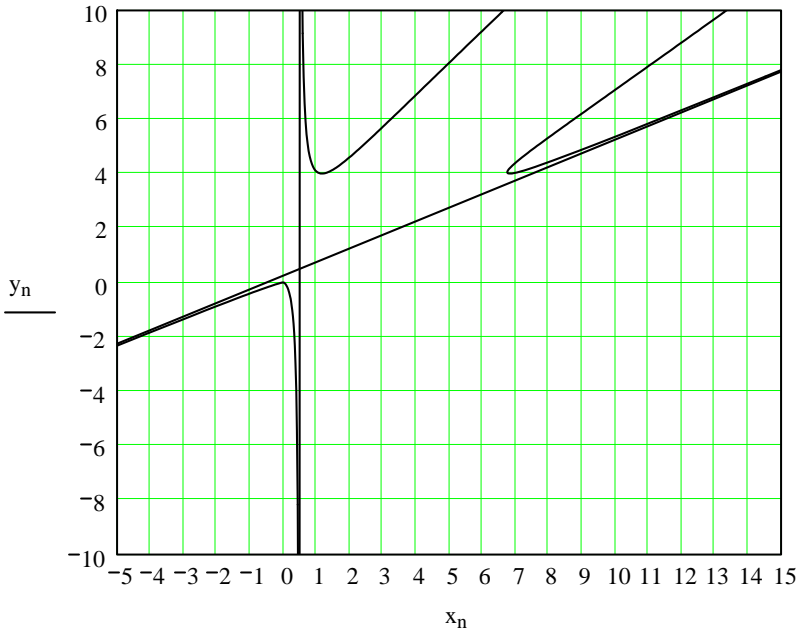


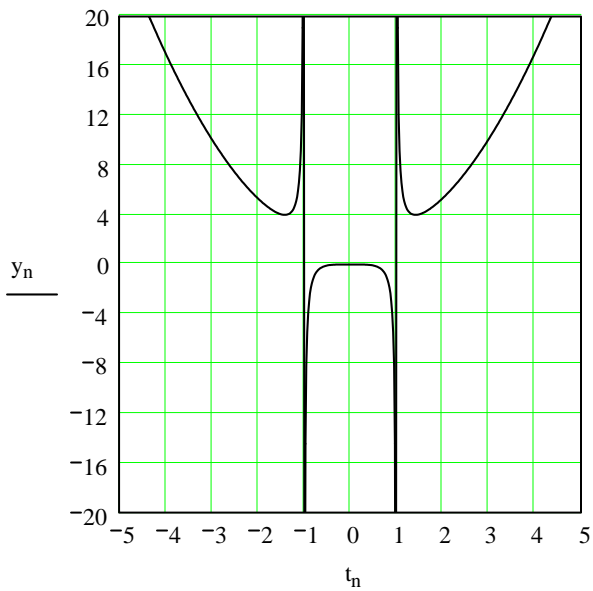
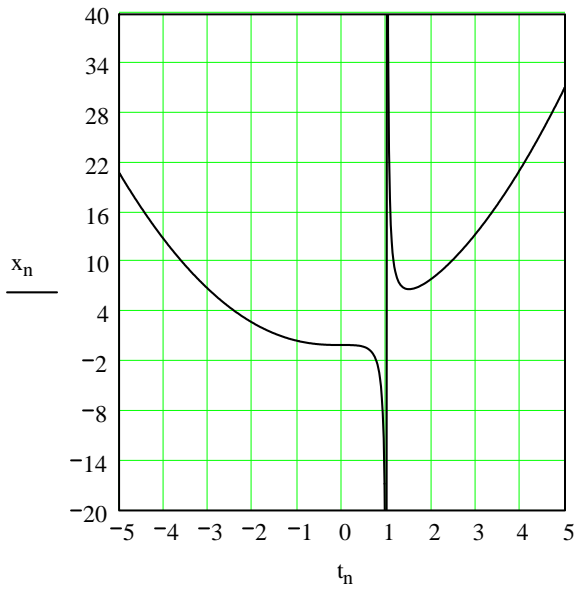


exam2004apr, c

$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t^3}{t-1} \quad f_{y1}(t) := \frac{t^4}{t^2-1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$

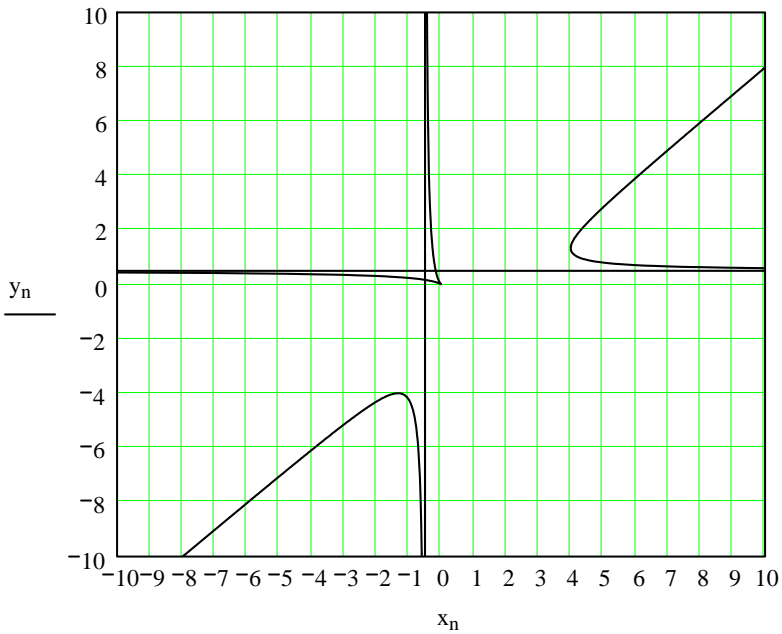


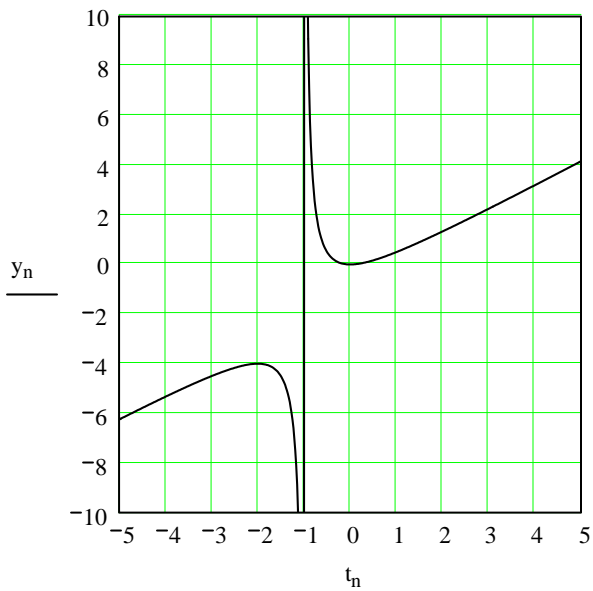
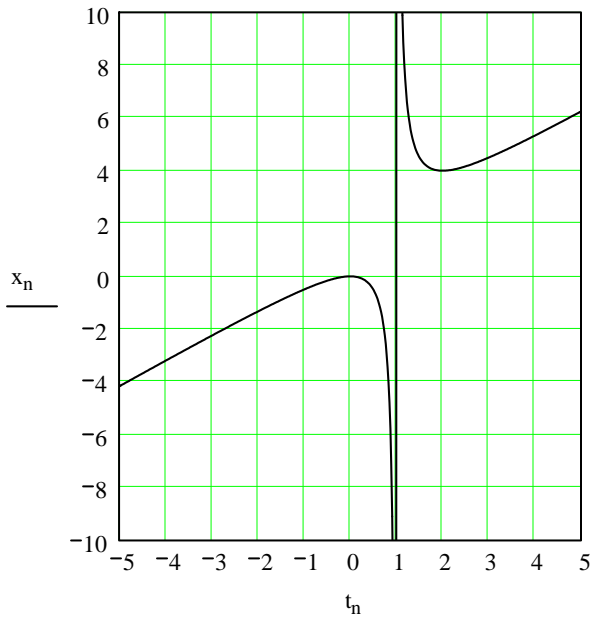


exam2004apr, e

$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \frac{t^2}{t-1} \quad f_{y1}(t) := \frac{t^2}{t+1} \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$





exam2004apr, m

$$t_a := -10 \quad t_b := 10 \quad N := 1001 \quad n := 0..N \quad t_n := t_a + \frac{t_b - t_a}{N} \cdot n$$

$$f_{x1}(t) := \sqrt[3]{\frac{4}{1+t^4}} \quad f_{y1}(t) := t \cdot f_{x1}(t) \quad x_n := f_{x1}(t_n) \quad y_n := f_{y1}(t_n)$$

