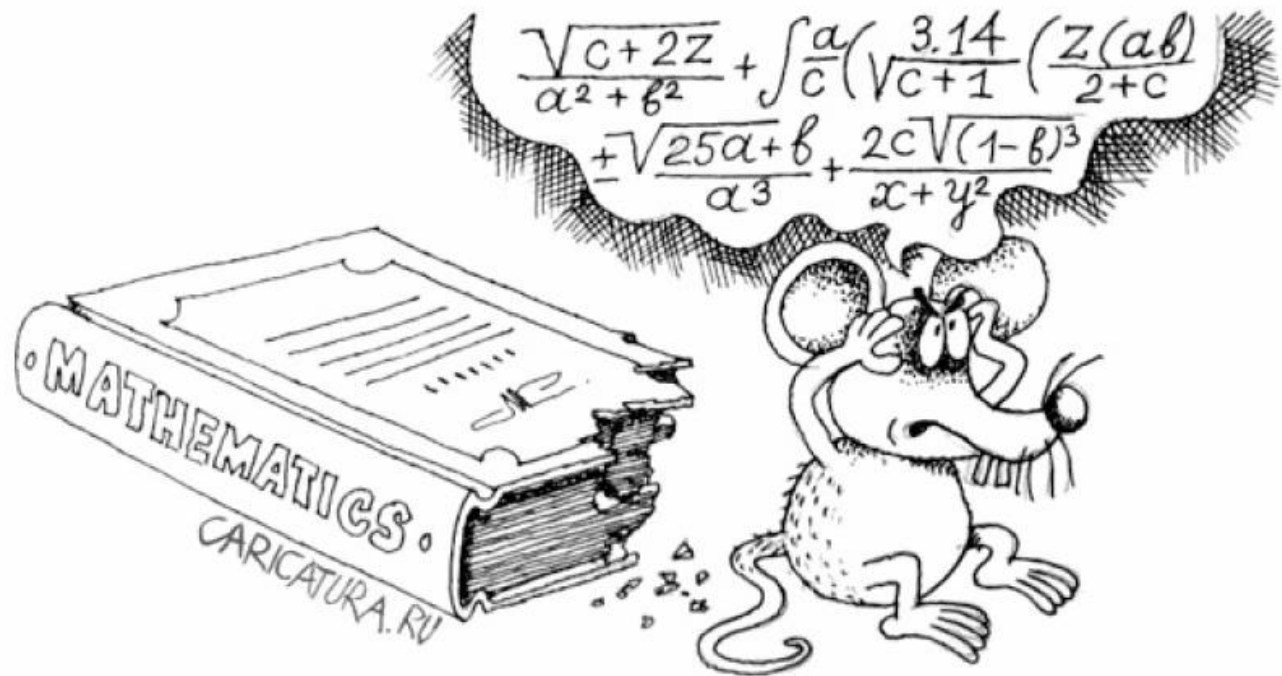
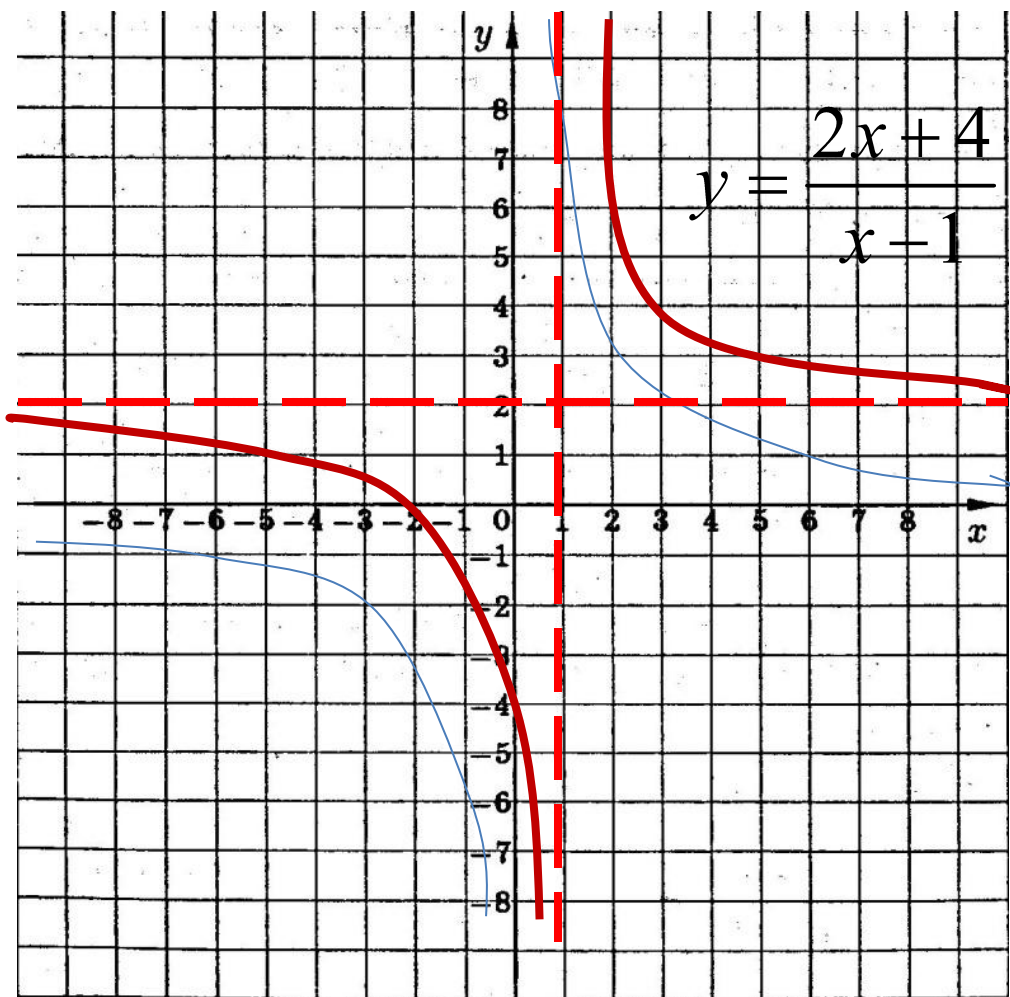


Дробно-линейная функция и ее график



Построить график функции



$$y = \frac{2x+4}{x-1}$$

$$\begin{array}{r|l} 2x+4 & x-1 \\ \hline 2x-2 & 2 \\ \hline 6 & \end{array}$$

$$y = \frac{2x+4}{x-1} = 2 + \frac{6}{x-1}$$

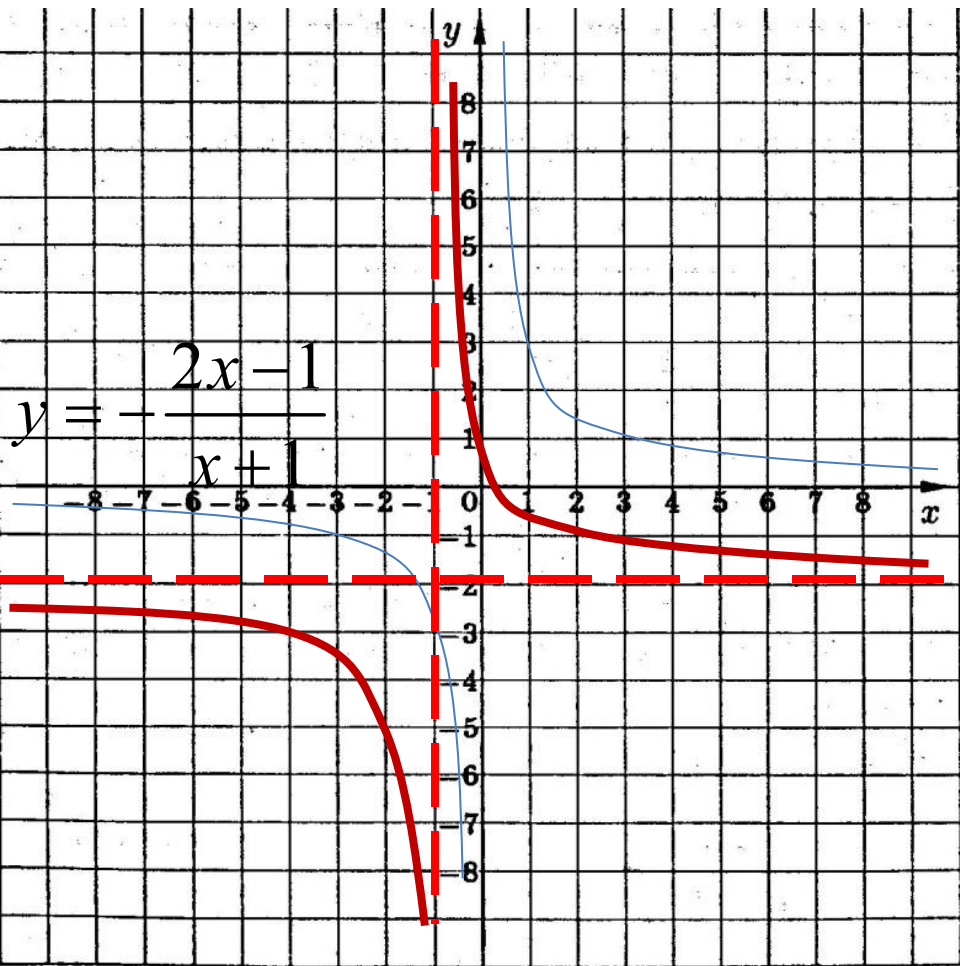
$$y = \frac{6}{x}$$

$$y = 2 + \frac{6}{x-1}$$

$x = 1; y = 2$ – асимптоты

Построить график функции

$$y = -\frac{2x-1}{x+1}$$



$$\begin{array}{r|l} 2x-1 & x+1 \\ \hline 2x+2 & 2 \\ \hline & -3 \end{array}$$

$$y = -\frac{2x-1}{x+1} =$$

$$= -\left(2 - \frac{3}{x+1}\right) = -2 + \frac{3}{x+1}$$

$$y = \frac{3}{x}$$

$$y = -2 + \frac{3}{x+1}$$

Построить графики функций

$$a) y = \frac{4}{x-3}$$

$$e) y = \frac{x+8}{x-2}$$

$$б) y = \frac{4}{x} - 3$$

$$д) y = -\frac{2x+4}{x-1}$$

$$в) y = y = \frac{4}{x-3} + 2$$