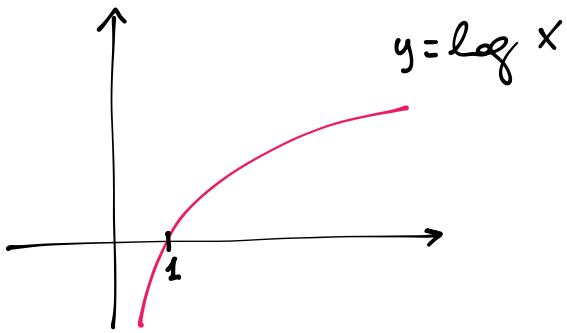
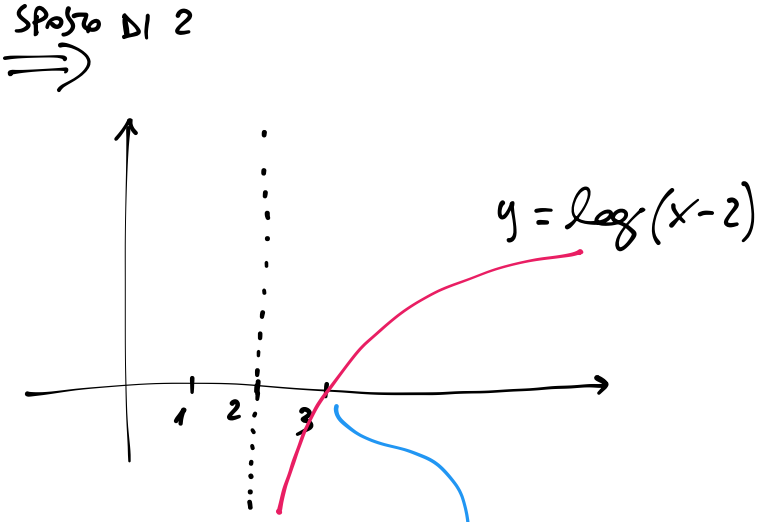
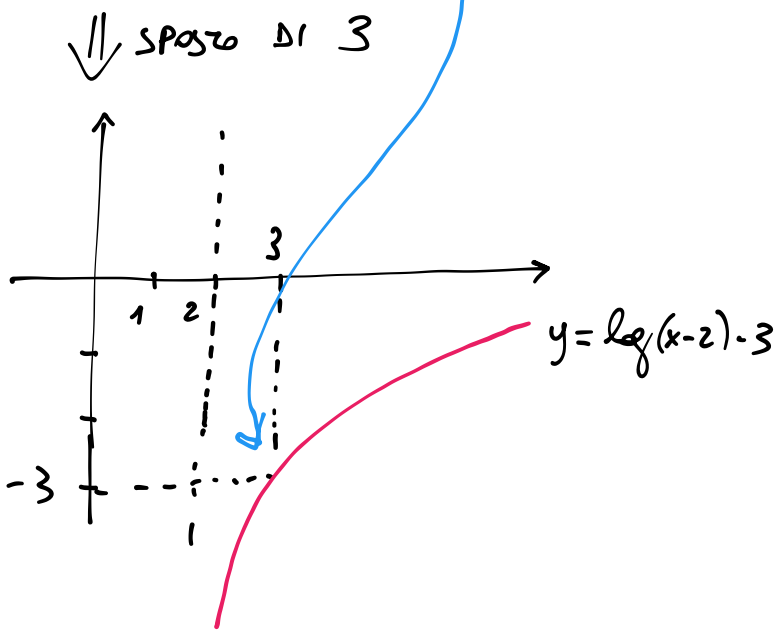
13/3/2018

$y = \log(x-2) - 3$







$$\begin{cases} y = 0 \\ y = \log(x-2) - 3 \end{cases}$$

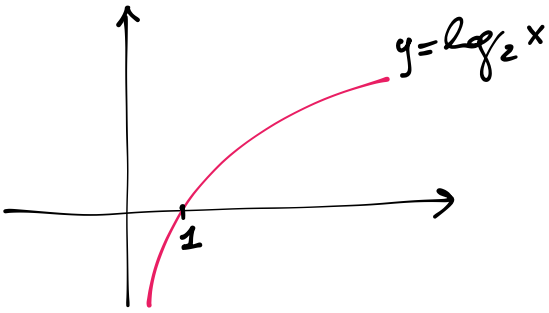
$$\log(x-2) - 3 = 0$$

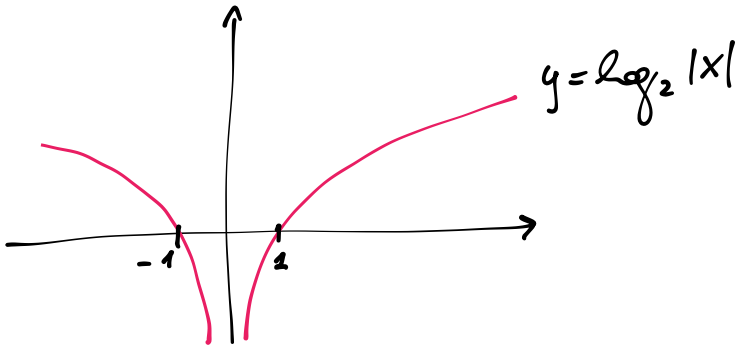
$$\log(x-2) = 3$$

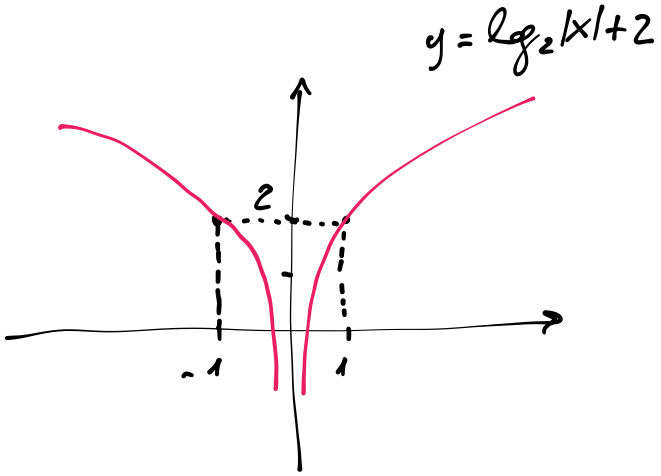
$$x - 2 = 10^3$$

$$x = 10^3 + 2 = 1002$$

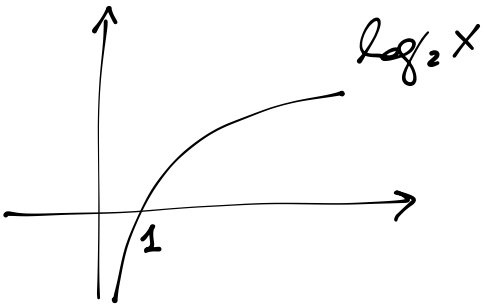
192) $y = \log_2 |x| + 2$

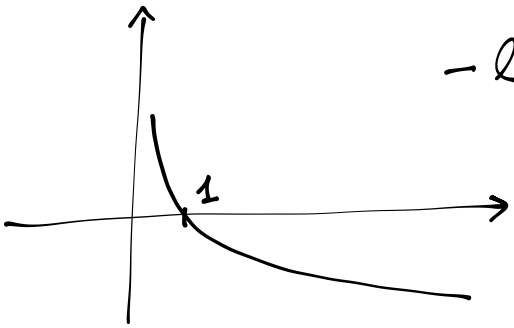


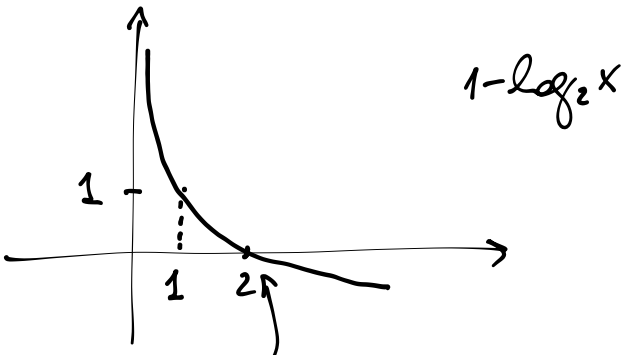


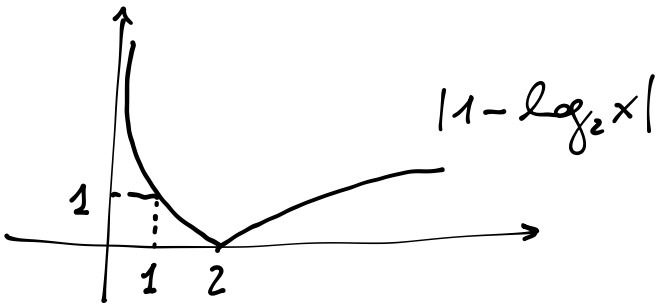


$y = |1 - \log_2 x|$









$1 - \log_2 x = 0$

$\log_2 x = 1$

$x = 2$

295 $\log_5 x + \log_5 3 = \log_5 6$

C.E. $x > 0$

$\log_5 (3x) = \log_5 6$

$\log_5$ È INIETTIVA

$f(x_1) = f(x_2) \Rightarrow x_1 = x_2$ INIETTIVA

$3x = 6$

$\boxed{x = 2}$

300 $\log(x-1) + \log(x-3) = \log 8$

C.E.

$\begin{cases} x-1>0 \\ x-3>0 \end{cases} \quad \begin{cases} x>1 \\ x>3 \end{cases} \Rightarrow \boxed{x>3}$

$\log[(x-1)(x-3)] = \log 8$

$(x-1)(x-3) = 8$

$x^2 - 3x - x + 3 - 8 = 0$

$x^2 - 4x - 5 = 0$

$(x-5)(x+1) = 0$

$x = -1$ N.A.

$x = 5$

$\boxed{x = 5}$