

(b)
$$Dom(f) = \{x>1\}$$
 $T_{1} + assi : Asse x : \int y = 0$
 $f(x) = -2 log_{\frac{1}{2}}(x-1) + 1$
 $O =$

(c)
$$f(x) = 5$$

$$-2 \log_{\frac{1}{2}}(x-1) + 1 = 5$$

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

$$x = 1+4 = 5$$

$$\frac{-2 \log_{\frac{1}{2}}(x-1) + 1}{\sqrt{x-1} + x^2 + 4}$$

$$\frac{-2 \log_{\frac{1}{2}}(x-1) + 1}{\sqrt{x-1}$$

