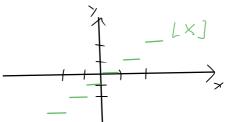
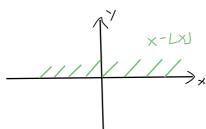
- (a)
- $\mathbb{D} = (-\infty; +\infty) \qquad b) \quad \mathbb{D} = [0; +\infty) \qquad c) \quad \mathbb{D} = (-2; \infty)$
- D = (0; 0°)
- e) D=R\{0} f)D=(-8;4]

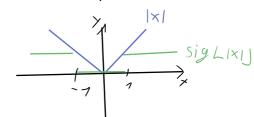
- g) $D=R/n = \sqrt{X}$ $N \in \mathbb{Z}$ $N \in \mathbb{Z}$ N

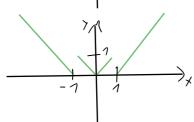
42

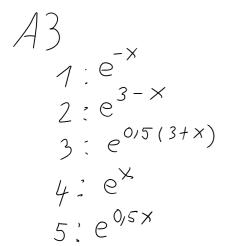
- d)
- b)



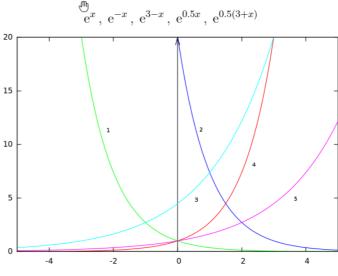


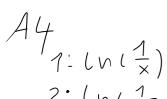






15 10



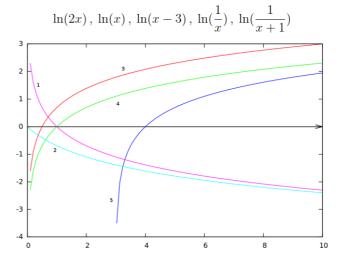


 $2: (N(\frac{x+1}{2}))$

3: (n(2x)

4: (n(x)

5 . (n(x-3)



$$a)$$
 $f(x) \rightarrow \infty$

$$J)$$
 $f(x) \rightarrow 2$

$$()$$
 $f(x) \rightarrow -\infty$

$$f$$
) $f(x) \rightarrow -2$

$$\mathcal{J} = \frac{2 \times^2 - 4}{3 \times^2 + 8 \times - 3}$$

$$f(x) \to \frac{2}{3}$$

$$\left(\int \int \frac{x^3 - 4x^2}{2x - 2x^3} dx \right)$$

$$f(x) \rightarrow -\frac{1}{2}$$

$$\emptyset$$
) = $f(x) = \frac{1-x}{1-\sqrt{x}}$

$$\lim_{x \to 7} = \frac{0}{0}$$

$$\frac{1-x}{1-\sqrt{x}} = \frac{1-\sqrt{x}}{1-\sqrt{x}} = \frac{(1-\sqrt{x})\cdot(1+\sqrt{x})}{1-\sqrt{x}} = 1+\sqrt{x}$$

$$\lim_{x \to 1} 1 + \sqrt{x} = 2$$

b)
$$g(t) = \frac{t}{|t|}$$
 $D_g = \mathbb{R} \setminus \{0\}$

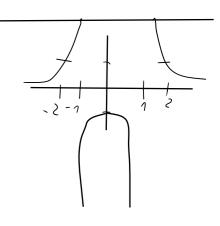
$$\lim_{-1 \to 0} \frac{t}{1 + 1} = -1 \qquad \lim_{1 \to 0} \frac{t}{1 + 1} = 7$$

$$\frac{\lim_{7 \to 0} \frac{t}{1+1}}{1+1} = 7$$

()
$$h(S) = \frac{1}{|S|-1}$$

$$\mathbb{D}_{h} = \mathbb{R} \setminus \{7, -1\}$$

$$(im \ 1) = \frac{7}{0,00...7} \quad (im \ 1) = \frac{7}{0,0...7} = -\infty$$



$$\begin{array}{c}
\sqrt{(\alpha)} = \frac{\alpha - 4}{\sqrt{\alpha - 2}} \\
= \frac{(\sqrt{\alpha})^2 - 4}{\sqrt{\alpha} - 2} = \frac{(\sqrt{\alpha} - 2) \cdot (\sqrt{\alpha} + 2)}{\sqrt{\alpha} - 2} = \sqrt{\alpha} + 2 \\
(\text{im} \quad \sqrt{\alpha} + 2) = 2 + 2 = 4
\end{array}$$

$$\frac{A9}{\int_{0}^{1} f(x) = 2 \times -2} \int_{0}^{1} f(x) = 2 \times -2$$

$$\frac{1}{2} + 1 = 2 \times 1 = 2$$

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$$\bigvee f(x) = |x|$$
 $\bigcup_{f} = \mathbb{R}$

$$\mathbb{D}_f : \mathbb{R}$$

$$f(x) = x \qquad \iint_{x} -1 = |R_{\delta}|^{+}$$

$$\bigvee f(x) = \int \hat{x} \qquad D_f = \mathbb{R}_0^+$$

$$\mathbb{D}_f = \mathbb{R}_6^{\dagger}$$

$$\int_{1}^{-1} (x) = x^{2} \qquad \mathbb{D}_{f}^{-1} = \mathbb{R}$$

$$(\lambda)$$
 f(\times) = (λ)

$$(x) = (x) = 0$$

$$(x) = (x) = (x) = (x)$$

$$(\mathcal{G}_{\alpha}(\gamma) = X)$$

$$f^{-1}(f) = f^{-1}(\alpha^{x}) = \log_{\alpha}(\alpha^{x}) = \times$$

$$u^{\times} = 7 - \gamma$$

$$\times = \log_{\alpha} (1 - \gamma)$$

$$\begin{cases} -7 \\ (x) = \log_A (1-x) \end{cases}$$

$$\mathbb{D}_{f}^{-1}:\mathbb{R}<1$$

$$f(t) = f(\tau - \alpha^{x})$$

()
$$f(x) = a^{x-2}$$

 $\gamma = a^{x-2}$
 $(og_{\alpha}(\gamma) = x-2)$
 $f(x) = 2 + log_{\alpha}(x)$

$$f^{-1}(f) : f^{-1}(a^{x-2})$$

$$= \frac{-2}{2} + \left(\frac{a}{a} \right)$$

$$= \frac{-2}{2} + \left(\frac{a}{a} \right)$$

$$= \frac{-2}{2} + \frac{-2}{2}$$

$$= \frac{-2}{2}$$

$$d = \frac{1 - x}{1 - x}$$

$$d = \frac{1 - x}{1 - x}$$

$$d = \frac{1 - x}{1 - x}$$

$$-\left(og_{\alpha}\left(\frac{x-2}{2}\right)+7\right)$$