3/10/2018

573
$$y = \arcsin \frac{2}{x+2}$$
 [] $-\infty; -4$] \cup [0; $+\infty$ []

Thorne il dominis

$$-1 \leq \frac{2}{x+2} \leq 1$$

$$= \begin{cases} \frac{2}{x+2} \leq 1 & \boxed{1} \\ \frac{2}{x+2} \geq -1 & \boxed{2} \end{cases}$$

$$\sqrt{1} \frac{2}{x+2} \le 1$$
 $\frac{2}{x+2} - 1 \le 0$ $\frac{2-x-2}{x+2} \le 0$

$$-\frac{x}{x+2} \le 0 \qquad \frac{x}{x+2} \ge 0 \qquad \overline{N} \quad x > 0$$

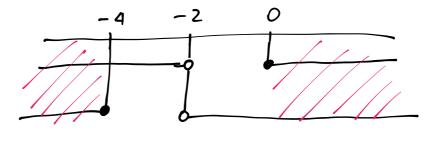
$$\overline{D} \quad x+2 > 0 => x > -2$$

$$(2) \frac{2}{x+2} > -1 \frac{2}{x+2} + 1 > 0 \frac{2+x+2}{x+2} > 0$$

$$\frac{x+4}{x+2} \gg 0 \quad \stackrel{\wedge}{\longrightarrow} x+4 \gg 0 \Rightarrow x \gg -4 \qquad \frac{-4}{-} \qquad \stackrel{-2}{\longrightarrow} + 4 \qquad + 4 \qquad$$

$$\left[\times \langle -4 \lor \times \rangle 2 \right]$$

$$\begin{cases} X < -2 & V & X \geqslant 0 \\ X < -4 & V & X > -2 \end{cases}$$



$$D = \left(-\infty, -4\right] \cup \left[0, +\infty\right)$$

$$y = \sqrt{\arcsin(x-1)}$$

$$\begin{cases} -1 \leqslant x - 1 \leqslant 1 \\ arcsin(x-1) \ge 0 \end{cases}$$

$$\begin{cases} -1 < x - 1 < 1 \\ -1 < x - 1 < 1 \end{cases} = 0 < x - 1 < 1 \\ x - 1 > 0 \end{cases} = 0 < x - 1 < 1$$

$$\begin{cases} -1 < x - 1 < 1 \\ x - 1 > 0 \end{cases} = 0 < x - 1 < 1$$

$$1 < x < 2$$

$$578 y = \arctan \frac{x+1}{1-x}$$

$$[\mathbb{R}-\{1\}]$$

$$1-x\neq 0 \implies x\neq 1 \qquad \mathbb{R}\setminus\{1\}$$

$$D = (-\infty, 1) \cup (1, +\infty)$$

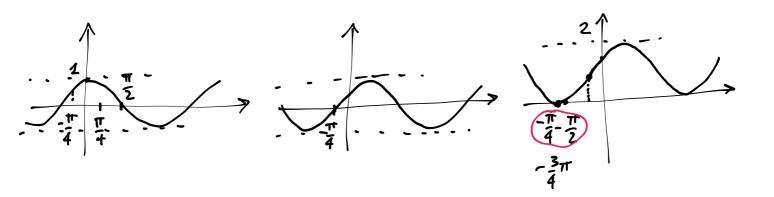
$$D =]-\infty, 1[U]1, +\infty[$$

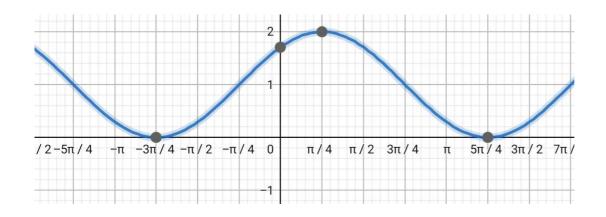
$$590 \quad y = \cos\left(x - \frac{\pi}{4}\right) + 1 \quad \text{Diseque} \quad \text{if grafics}$$

$$\cos \times \longrightarrow \cos \left(x - \frac{\pi}{4}\right) \longrightarrow \cos \left(x - \frac{\pi}{4}\right) + 1$$
trashs di #

Ners l'alts

Ners destre





$$|\sin\left(x - \frac{\pi}{4}\right) + \frac{1}{2}|$$

$$Sin \times \longrightarrow Sin \left(x - \frac{\pi}{4} \right) \longrightarrow Sin \left(x - \frac{\pi}{4} \right) + \frac{1}{2} \longrightarrow \left| sin \left(x - \frac{\pi}{4} \right) + \frac{1}{2} \right|$$

