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

C.E.
$$2x-2\neq 0$$
 $2x\neq 2$

$$-3-\infty; 1[0]_{1;+\infty}$$

Poiche
$$\frac{x+1}{2x-2}$$
 = $\lim_{z \to c} \frac{x+1}{2x-2}$ $\lim_{z \to c} \frac{x+1}{2x-2}$ $\lim_{z \to c} \frac{x+1}{2x-2}$ $\lim_{z \to c} \frac{x+1}{2x-2}$ $\lim_{z \to c} \frac{x+1}{2x-2}$

Frims de Bra studames l'espondnt.

$$\mathcal{Q}(x) = \frac{x+1}{2x-2}$$

$$\| x+1 \ge 0 \qquad \| x \ge -1 \qquad \| x \ge -1$$

$$2x-2 > 0 \qquad \| 2x > 2 \qquad | x > 1$$

$$\lim_{x\to 0} e^{\frac{x+1}{2x-2}} = e^{\frac{1}{2}} = \sqrt{e}$$

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$$\lim_{x\to 0} e^{\frac{x+1}{2x-2}} = e^{\frac{1}{2}} = 0$$

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$$\lim_{x\to 0} e^{\frac{x+1}{2x-2}} = e^{\frac{x+1}{2x-2}} = e^{\frac{x+1}{2x-2}} = e^{\frac{x+1}{2x-2}}$$

MONOTOWIA

$$\frac{2}{2x-2}$$

$$S(x) = e^{\frac{x+1}{2x-2}} \left(\frac{2x-2-(x+1)(2)}{(2x-2)^2} \right) =$$

$$=\frac{2^{x-1}}{2^{x-2}}\left(\frac{2x-2-2x-2}{2x-2}\right)=\frac{-4e^{\frac{x+1}{2x-2}}}{(2x-2)^2}$$

$$g'(x)$$
 co $\forall x \in]-00; 1 [U] 1; +00[$

$$\begin{cases}
\frac{1}{x} = -4 & \frac{2^{\frac{x+1}{2x-2}}}{(2x-2)^2} = -4 & \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^2} = \frac{x+1}{(x-1)^2} \\
-\frac{2^{\frac{x+1}{2x-2}}}{(x-1)^2} = \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^2} = \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^2} = \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^2} = \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^4} = \frac{2^{\frac{x+1}{2x-2}}}}{(x-1)^4} = \frac{2^{\frac{x+1}{2x-2}}}{(x-1)^4} = \frac{2^{\frac{x+1}{2x-2$$

$$\begin{cases} 1/(x) = \frac{2x+1}{2x-2} \\ (x-1) \end{cases}$$

•

$$S\left(\frac{1}{2}\right) = \frac{3}{2} = \frac{3}{2}$$

