Calcula:

$$\lim_{x \to 0} \left(\frac{x^{2} + 1}{2x + 1} \right)^{\frac{1}{x}} \qquad \lim_{x \to 2} \left(\frac{2x^{2} - x - 1}{7 - x} \right)^{\frac{1}{x - 2}}$$

$$a) \quad \lim_{x \to 0} \left(\frac{x^{\frac{1}{2} + 1}}{1 \times x + 1} \right)^{\frac{1}{x}} = \left\{ 1^{\infty} \frac{1}{4} : \lim_{x \to 0} e^{\frac{1}{x} \left[\frac{x^{2} + 1}{2x + 1} - 1 \right]} : e$$

Factoritamon:
$$2x^2-8=0 \Rightarrow x^2=4=1 x=\pm 2$$
 $8 = 2 e^{\frac{1}{x-2}} \cdot \frac{(x-2)(x+2)}{2-x} = 2 e^{\frac{x+2}{x-x}} = 2$