Bai toip tuân 2:

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$$\lim_{x \to +\infty} \left(\frac{3x+1}{3x-1} \right)^{2x+7} = \lim_{x \to +\infty} \left(\frac{1+\frac{1}{3x}}{1-\frac{1}{3x}} \right)^{2x+7}$$

$$= \lim_{x \to +\infty} \left(1+\frac{1+\frac{1}{3x}}{1-\frac{1}{3x}} - 1 \right)^{2x+7} = \lim_{x \to +\infty} \left(1+\frac{2}{3x-1} \right)^{2z+7}$$

$$= \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{2z+7} = \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{3x-1}}$$

$$= \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{2}} = \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{3x-1}}$$

$$= \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{2}} = \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{3x-1}}$$

$$= \lim_{x \to +\infty} \left(1+\frac{1}{\frac{3z-1}{2}} \right)^{\frac{3z-1}{2}} = \lim_{x \to$$