

Déterminer

$$\lim_{x \rightarrow +\infty} \sqrt{(8x-9)^{-1}(-x-7+6x^2)}$$

$$(8x-9)^{-1}(-x-7+6x^2) = \frac{6x^2-x-7}{8x-9}$$

$$\lim_{x \rightarrow +\infty} \frac{6x^2-x-7}{8x-9} = \lim_{x \rightarrow +\infty} \frac{6x^2}{8x} = \lim_{x \rightarrow +\infty} \frac{3}{4}x = +\infty$$

de plus $\lim_{x \rightarrow +\infty} \sqrt{x} = +\infty$

donc $\lim_{x \rightarrow +\infty} \sqrt{\frac{6x^2-x-7}{8x-9}} = +\infty$