

Déterminer

$$\lim_{x \rightarrow +\infty} \sqrt{\frac{4x^2 + 5 + 2x}{-2 + 7x^2 - 9x}}$$

$$\frac{2}{7} \sqrt{7}$$



Valider ✓

Suivant ▶

$$\lim_{x \rightarrow +\infty} \frac{4x^2 + 5 + 2x}{-2 + 7x^2 - 9x} = \lim_{x \rightarrow +\infty} \frac{4x^2}{7x^2}$$

$$\lim_{x \rightarrow +\infty} \frac{4x^2 + 5 + 2x}{-2 + 7x^2 - 9x} = \lim_{x \rightarrow +\infty} \frac{4}{7} = \frac{4}{7}$$

$$\lim_{x \rightarrow \frac{4}{7}} \sqrt{x} = \sqrt{\frac{4}{7}} = \frac{2}{\sqrt{7}} = \frac{2\sqrt{7}}{7}$$

} donc par composition

$$\lim_{x \rightarrow +\infty} \sqrt{\frac{4x^2 + 5 + 2x}{-2 + 7x^2 - 9x}} = \frac{2}{7} \sqrt{7}$$