

## *Ejercicio Tecnología e informática*

Find the limits in Exercises 37–46. (Hass et al., 2018, p. 98)

$$\begin{aligned} 37. \lim_{x \rightarrow \infty} \frac{2x + 3}{5x + 7} &= \lim_{x \rightarrow \infty} \frac{x(2 + \frac{3}{x})}{x(5 + \frac{7}{x})} \\ &= \lim_{x \rightarrow \infty} \frac{(2 + \frac{3}{x})}{(5 + \frac{7}{x})} \\ &= \frac{2 + \frac{3}{\infty}}{5 + \frac{7}{\infty}} \\ &= \frac{2}{5} \end{aligned}$$

### **Referencia:**

Hass, J., Heil, C., & Weir, M. D. (Eds.). (2018). Thomas' calculus (Fourteenth edition). Pearson.

[https://docs.google.com/document/d/1\\_oqsOXPGGUcuNXW0TssFDXwtD35iMUx54ZMr8Ju267Q/edit](https://docs.google.com/document/d/1_oqsOXPGGUcuNXW0TssFDXwtD35iMUx54ZMr8Ju267Q/edit)