Write a proof for each of the four limit statements below using the ϵ-δ definition. Your word choice and style should be unique to you and your thought process, but you will want to follow a similar outline to the examples in the book and/or the video. It is worth having a look at the sample Overleaf document, even if you don't intend to use the system; the first example solution is a proof.

(1) $\displaystyle\lim_{x \to -2} \frac{x}{2} + 3 = 2$.

(2) $\displaystyle\lim_{x \to 1} x^2 + 4 = 5$.

(3) $\displaystyle\lim_{x \to 2} x^3 - 1 = 7$.

(4) $\displaystyle\lim_{x \to 0} e^{2x} - 1 = 0$