Exercise 1
Find the domain and range of the following functions and draw their graphs:

(i) \( f(x) = -x^2 \),
(ii) \( f(t) = 1 + t^3 \),
(iii) \( f(x) = \frac{1}{\sqrt{1 - x^2}} \),
(iv) \( f(x) = 2^{-x} + 1 \),
(v) \( f(t) = \ln(t + 1) \),
(vi) \( f(t) = \sin(2\pi t) + 2 \).

Exercise 2
Find the limits:

(i) \( \lim_{x \to -1} (x^2 - 3x) \),
(ii) \( \lim_{x \to 1} \frac{x^2 + x - 2}{x - 1} \),
(iii) \( \lim_{x \to 0^-} e^x \).

Exercise 3
Calculate derivatives of functions in Exercise 1.