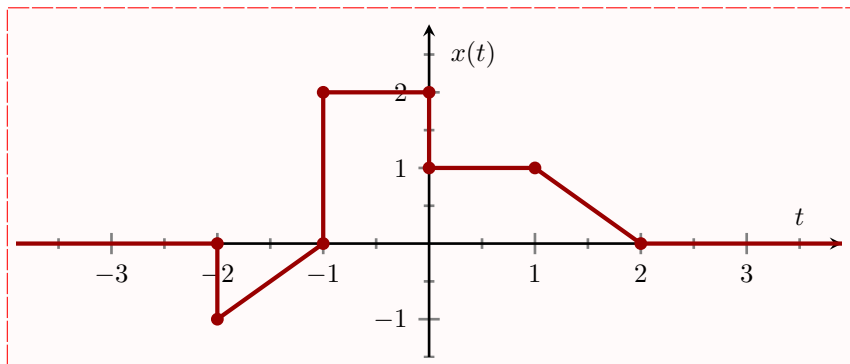**Name:** _____

Campus ID: _____

Total Marks: 10
Time Duration: 15 minutes

Question 1 (6 marks)

Sketch and **label** $x(2 - t/2)$ for the CT signal $x(t)$ shown below.

Question 2 (4 marks)

Determine whether the following signal is periodic or not. If the signal is periodic, determine its fundamental period. Briefly justify your answer.

$$x[n] = (-1)^n + j^n + \cos(\pi\, n/3) + 10.$$