(4) If water is flowing at a constant rate (i.e constant volume per unit time) into the Grecian urn in Figure 1, sketch the a graph of the depth of the water against time. Mark on the graph the time at which the water reaches the widest point of urn

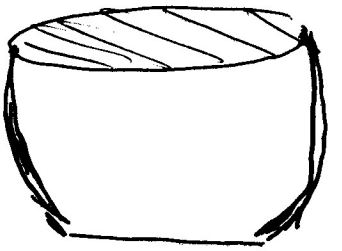
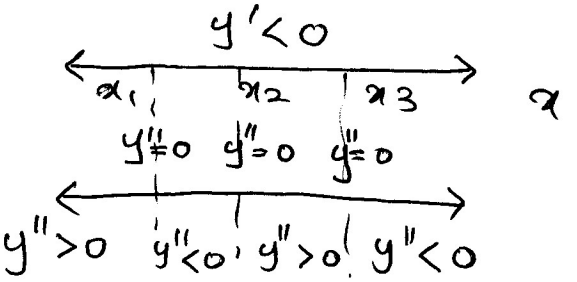


Figure 1

(5)



Sketch a graph of $y = f(x)$