91 Concave & Convex Functions

1. Find the interval on which the function $f(x) = x^3 + 4x + 3$ is concave.

3. The curve *C* has equation
$$y = x^3 - 2x^2 - 4x + 5$$

a) Show that C is concave on the interval [-2,0] and convex on the interval [1,3]

b) Find the coordinates of the point of inflection