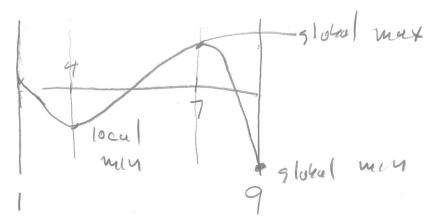
## You must show your work to get full credit.

1. On the interval  $1 \le x \le 9$  draw the graph of a function that has a local minimum at x = 4, a global maximum at x = 7 and a global minimum at x = 9.



2. Let f(x) = x(x-1)(x-2) on the interval  $0 \le x \le 2.5$ . Use your calculator to find



Global maximizer of f 2.5

Global maximum of f

Global minimizer of f 1.5.773

Global minimum of f = .38490

|X| = X(X-1)(X-2)

Xmin =0 Xmex =2.5

From graph, we see global maximum = 2.5 Use 2nd calc vale to set 612.5) = 1.85 For minimum use 2nd calc minimum to set X = 1.5773 (minimizer) Y = -.38490 (minimum)