1. This is FALSE, since a function can have any number of global minima or maxima. Consider, for example cos(x): This function has global minima (f = -1) at x = π, 3π, 5π etc.)

2. This is also FALSE. It is true that local optima occur where f'(x) = 0, but they can also occur at points where f'(x) does not exist.

3. The feasible set is the set of all points that fulfil the constraints.