Suggested problems 4

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1. Find the general solution of the given first order ODE. Give the answer in an explicit form.

a)
$$y' = t^2 \sqrt{y}$$

b)
$$e^y \frac{dy}{dx} - 3x^2 + 4x = 0$$

2. Solve the following initial value problem

$$y' = y - y^2$$
, $y(1) = 2$.

How would the answer change if the initial condition is set y(1) = 1?