

Section 31.1: cont'd

Friday, February 3, 2017 2:30 PM

two types of solutions:

- explicit \rightarrow solve for y

- implicit \rightarrow not solved

implicit \leftarrow if $x^2 + y^2 = cx$ is a sol'n (solution)
to a DE, find the explicit solution

so, solve for y :

$$x^2 + y^2 = cx$$

$$y^2 = cx - x^2$$

explicit \leftarrow

$$y = \pm \sqrt{cx - x^2}$$