

Problem 20

In each of Problems 9 through 20:

- (a) Find the solution of the given initial value problem in explicit form.
- (b) Plot the graph of the solution.
- (c) Determine (at least approximately) the interval in which the solution is defined.

$$y^2(1-x^2)^{1/2} dy = \arcsin x dx, \quad y(0) = 1$$