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Solution : The equation of continuity :
 $A_1 v_1 = A_2 v_2$. $8 v_1 = (2)(2) 8 v_1 =$
 4 . $v_1 = 4 / 8 = 0.5$ m/s. 9. If the
diameter of the larger pipe is 2 times
the diameter of smaller pipe, what is
the speed of fluid at the smaller pipe.
Known : Diameter of the larger pipe (d_1) = 2. Radius of the larger pipe (r_1) =
 $\frac{1}{2} d_1 = \frac{1}{2} (2) = 1$

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Solution: Since the flow is steady, the fluid acceleration along the half-body surface is convective, $dU/dt = U(dU/ds)$, where s is along the surface. (a) At the point of

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A viscous liquid steadily exits a circular vertical pipe (with inner diameter = D)

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with a parabolic velocity distribution (see figure). After the fluid exits the tube, viscous forces smooth the velocity profile to a uniform value. This happens in a very short distance from the exit, so that gravity force is negligible.

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The solution to a fluid dynamics problem typically involves the calculation of various properties of the fluid, such as flow velocity, pressure, density, and temperature, as functions of space and time. Before the twentieth century, hydrodynamics was synonymous with fluid dynamics.

~~Fluid dynamics – Wikipedia~~

FLUID DYNAMICS: Physics,

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Mathematics and Applications J. M. McDonough Departments of Mechanical Engineering and Mathematics University of Kentucky, Lexington, KY 40506-0503 c 1987, 1990, 2002, 2004, 2009

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Assignments will be posted approximately one week before the due date. (Problem Set 5 is not graded and does not need to be turned in.) In general, one problem in each problem set may be declared "off limits". These "off limits" problems will not be discussed in full detail by the 2.06 staff before you hand in your solutions.

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In the study of partial differential

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equations, particularly in fluid dynamics, a self-similar solution is a form of solution which is similar to itself if the independent and dependent variables are appropriately scaled. Self-similar solutions appear whenever the problem lacks a characteristic length or time scale. These include, for example, the Blasius boundary layer or the Sedov-Taylor shell.

~~Self-similar solution - Wikipedia~~

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