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1 Solutions to Chapter 2 problems Problem 2.1: In this problem we are interested in the continuity equation for axisymmetric flow in terms of the cylindrical coordinate system (r;  $\theta$ ; z), where all flow variables are independent of angular coordinate,  $\theta$ . Let the velocity components (u;v;w) = (u;0;w) in the (r;  $\theta$ ; z) coordinate directions.

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