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Applying the second of the given boundary conditions shows that the function $() f t$ has the following value: $2 () f t R R$ Thus the radial velocity in the fluid at any distance r from the sphere at any time t will be: $2 2 (,) R R r t r r$ Integrating the foregoing equation with respect to r yields the result: $2 (,) () R R r t g t r$ where $() g t$ is some function of time.

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[BASIC CONSERVATION LAWS Page 1-4 Problem 1.4](#) Using the given transformation equations gives: $x 2 2 2 2 2 2$ and $\tan 2 2 2 \cos \cos 1 \sin 1$ and $\sec \sin \cos$

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