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Applying the second of the given boundary conditions shows that the function  $(\int f t$  has the following value:  $2 (\int f t R R$  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  $(\int) g t$  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  $\tan 2 2 2 \cos 1 \sin 1$  and  $\sec \sin \cos$

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