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Evaluating the various terms in this equation for the Cartesian coordinates  $(x, y, z)$  and the Cartesian velocity components  $(u, v, w)$ , yields the following value for  $\Phi$ :  
 $2k_{1111}u^2 + 2k_{2222}v^2 + 2k_{3333}w^2 + 2k_{1122}uv + 2k_{1133}uw + 2k_{2211}vu + 2k_{2233}vw + 2k_{3311}wu + 2k_{3322}wv + 2k_{1212}2uv + 2k_{1313}2uw + 2k_{2323}2vw + 2k_{1221}2uv + 2k_{1331}2uw + 2k_{2332}2vw$   
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