

Rozkład prędkości prądu w rzece w funkcji odległości od środka rzeki, dany jest wzorem :  $v(x) = v_0 \left(1 - \frac{|x|}{L}\right)$ , gdzie L – odległość od środka do brzegu rzeki. Scharakteryzować powyższe pole prędkości (opisie rotacji i dywergencji). Odp.  $div\vec{v}=0$ ;  $rot\vec{v}=[0,0,\frac{\mp v_0}{L}]$ 

$$v(x) = v_0 \left(1 - \frac{1 \times 1}{L}\right)$$

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$$V(x) = \left(0, v_0 \left(1 - \frac{1 \times 1}{L}\right), 0\right)$$

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