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P2.2 Solution (a) From the normal strain in

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rod (2) and its length, the deformation of rod (2) can be calculated: $(1,080 \text{ 10 } 6) (75 \text{ in.}) 0.0810 \text{ in.}$ $2 \text{ 2 } L2$ Since rod (2) is assumed to be connected to the rigid bar with a perfect connection, the rigid bar must move downward an amount equal to the deformation of rod therefore, $vB 0.0810 \text{ in. (downward)}$ 2 symmetry, the rigid bar must remain horizontal as it moves downward, and thus, $vB vA vC$.

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