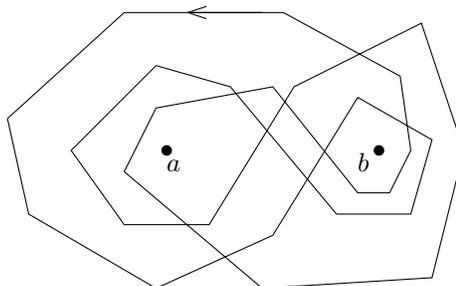


**Comprehension questions**

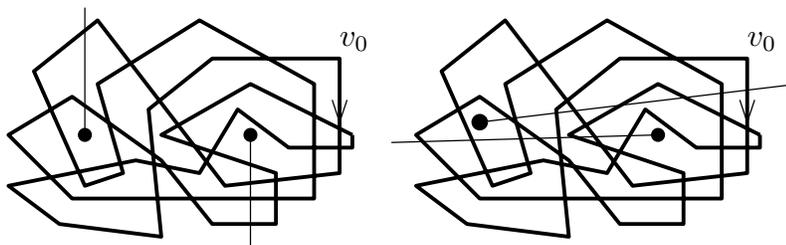
PROBLEM 5.1. *Two of these are the same word, which ones?*

- (i)  $[B^{-1}B^{-1}ABAB]$ ;
- (ii)  $[BBAB^{-1}B^{-1}A]$ ;
- (iii)  $[ABA^{-1}BAA]$ ;
- (iv)  $[AABAB^{-1}A^{-1}]$ .

PROBLEM 5.2. *Determine the word associated to*



PROBLEM 5.3. *What sequence of letters does one get from the two choices of rays shown below? Check that these represent the same word.*



PROBLEM 5.4. *Draw a polygonal loop with word  $[A^3B^3]$ .*

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18.900 Geometry and Topology in the Plane  
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