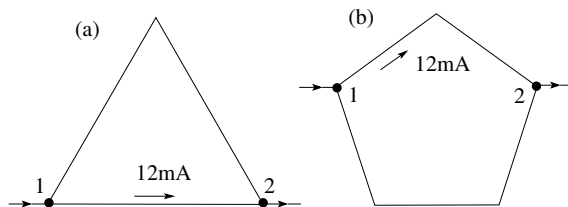




Two wires are formed into

- (a) an equilateral triangle,
- (b) a regular pentagon.

A voltage between points 1 and 2 produces a current of 12mA along the shorter path.



What is the current along the longer path in each case?