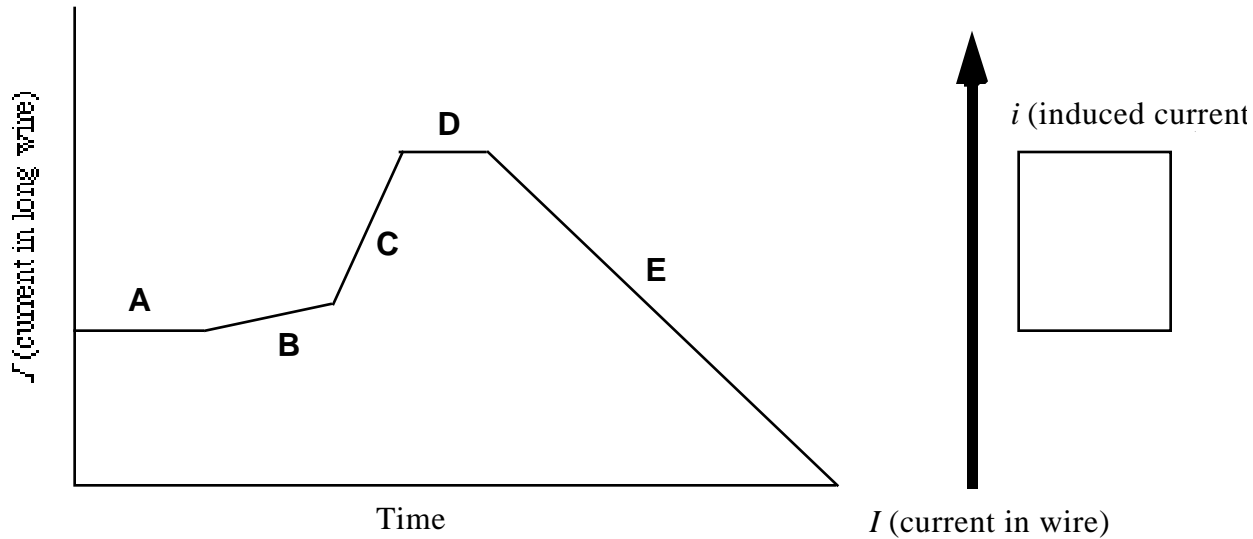


Graph of Current vs. Time—Induced Current ¹⁹⁰

We have a long wire with a varying current, I , as indicated in the graph below. Near this wire is a square loop, also shown in the diagram below.

Rank the magnitude of the induced current, i , in the square loop from greatest to least for the different time intervals.



Greatest 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ Least

Or, all of the intervals produce the same induced current. _____

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

Basically Guessed

Sure

Very Sure

1 2 3 4 5 6 7 8 9 10

¹⁹⁰ C. Hieggelke