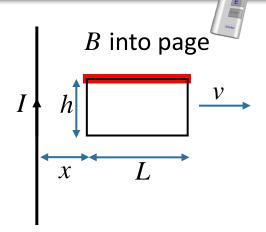
## Example Problem

A rectangular loop (h = 0.3m L = 1.2 m) with total resistance of  $5\Omega$  is moving away from a long straight wire carrying total current 8 amps. What is the induced current in the loop when it is a distance x = 0.7 m from the wire?



What is the *emf* induced on the top segment?

- A) left is positive
- B) left is negative
- C) Zero

$$ec{v} imesec{B}$$
 perpendicular to wire