A long straight wire has a decreasing current. A rectangular loop lies in the same plane as the wire. What direction (if any) does the induced current in the rectangular loop flow?

1. clockwise
2. counter-clockwise
3. no current is induced
4. need more information
The figure below shows a conducting bar of length $l$ sliding across two parallel conducting rods. Attached across the two parallel rods is a resistor of resistance $R$. As the conducting bar is pulled (with constant velocity) to the right, what is the direction of the magnetic force acting on the bar?

1). Up the page.  
2). Down the page.  
3). To the right.  
4). To the left.  
5). Into the page.  
6). Out of the page.
The figure below shows an open loop of wire in a magnetic field. The field is changing, and charge has piled up at the loop gap with the polarity indicated in the figure. What can be concluded?

1). The magnetic field is increasing.
2). The magnetic field is decreasing.
3). There can be no charge since this is an open loop.
4). More information is needed.