**Noteguide for Ampere's Law - Videos 20H Name**

 

Whiteboards:

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| 1. What is the magnetic field 13 cm from a wire that is carrying 45 A? (6.9x10-5 T) | 2. At what distance from a wire carrying 1.20 A is the magnetic field 1.50 x 10-4 T? (1.6x10-3 m ) |
| 3. If a wire has a magnetic field of 1.15 x 10-4 T at a distance of 2.51 cm from its center, what is the current flowing in the wire? (14.4 A) |



Whiteboards:

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| 1. (8.1x10-4 N to the right) | 2. (5.05x10-2 A up the page) |

 

Whiteboards:

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| 1. A solenoid has 360 windings. It is 13 cm long, and carries a current of 1.75 A. What is its internal B-Field? (0.0061 T) | 2. A solenoid needs to generate 1.0 T of B-field. it is 20 cm long, and has 100. windings. What current does it need? (1600 A) |