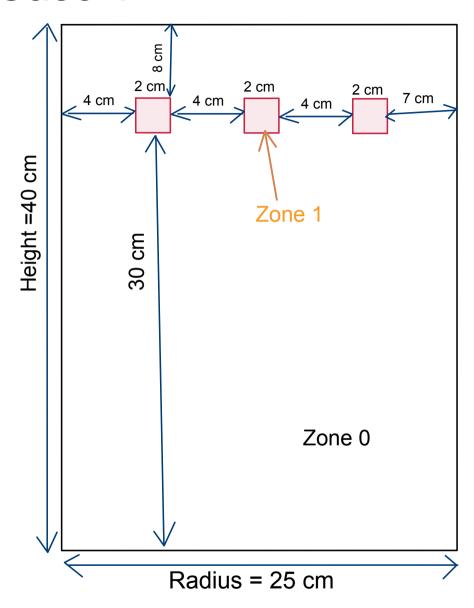
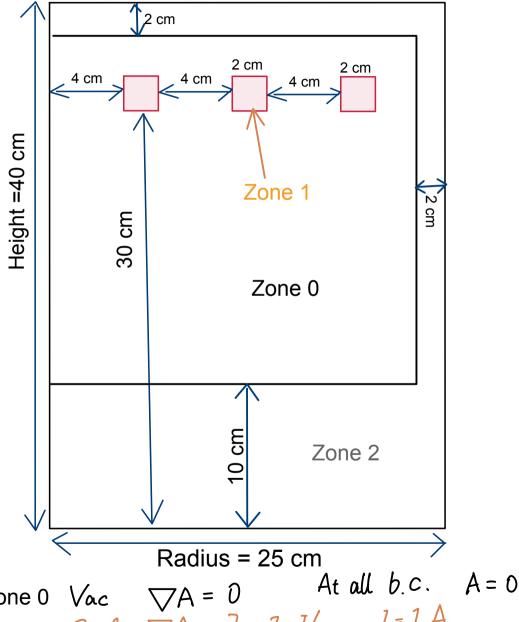
### Case 1



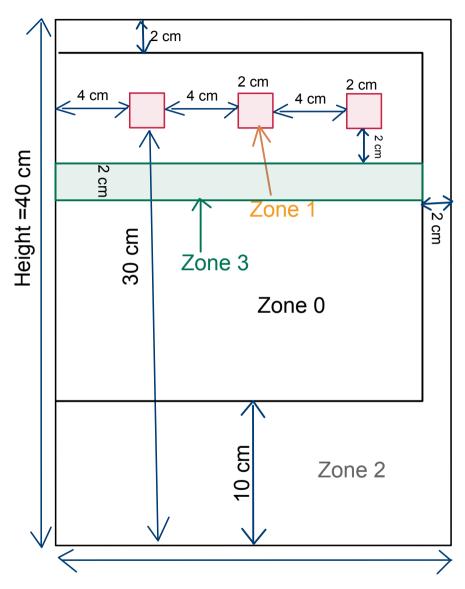
Zone 0 
$$Vac$$
  $\nabla A = 0$   
Zone 1  $Coil$   $\nabla A = 7$ ,  $7 = I/area$ ,  $1 = 1$   $A$   
At all b.c.  $A = 0$ 

#### Case 2



Zone 0 Vac  $\nabla A = 0$  At all D.C. A = 0Zone 1 Coil  $\nabla A = 7$ ,  $7 = \frac{1}{area}$ ,  $\frac{1}{area} = \frac{1}{area}$ Zone 2 Metal A = 0

## Case 3

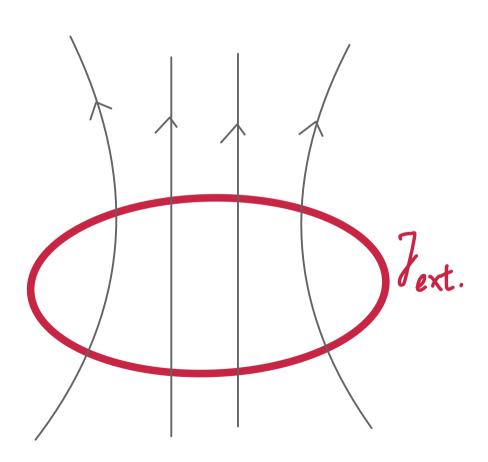


Zone 3 Dielectric A is continuous at the interface

$$\nabla A = J_{induced}$$
,  $J_{induced} = \sigma E$   
 $E = i \omega A$   $J_{induced} = i \omega \sigma A$ 

VA = iwoA

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