# Helmholtz equation:

(2\*3.1415\*10^(-7)\*500)\*I\*R^2\*(1/(R^2+(x-x0+0.05)^2)^(3/2)+1/(R^2+(x-0.05-x0)^2)^(3/2))

# Anti-Helmholtz equation:

(2\*3.1415\*10^(-7)\*500)\*I\*R^2\*(1/(R^2+(x-x0+0.05)^2)^(3/2)-1/(R^2+(x-0.05-x0)^2)^(3/2))

# Single Coil equation:

2\*3.1415\*10^(-7)\*500\*I\*R^2/(R^2+(x-x0)^2)^(3/2)

# Solenoid equation:

10^(-7)\*2\*3.14\*2920\*I/0.12\*((x-x0+0.06)/((x-x0+0.06)^2+R^2)^(1/2)-(x-x0-0.06)/((x-x0-0.06)^2+R^2)^(1/2))