Kernels and derivatives:

$$-4\pi K_{MR} = \frac{\mathbf{x}}{R^3},$$

$$R^2 = \mathbf{x}.\mathbf{x} + \epsilon^2,$$

$$-4\pi \frac{\partial K_{MR}}{\partial x} = -\frac{3x}{R^5}\mathbf{x} + \frac{\mathbf{i}}{R^3},$$

$$-4\pi K_{WL} = \frac{R^2 + 3\epsilon^2/2}{R^5}\mathbf{x},$$

$$-4\pi \frac{\partial K_{WL}}{\partial x} = -x\frac{3R^2 + 15\epsilon^2/2}{R^7}\mathbf{x} + \frac{R^2 + 3\epsilon^2/2}{R^5}\mathbf{i}.$$