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Ph	ysics 111 Quiz #5, October 20, 2025
	ease show all work, thoughts and/or reasoning to receive partial credit. The quiz is worth 10 ints total, and all parts may not be of equal weight.
	I affirm that I have carried out my academic endeavors with full academic honesty.
1.	A cell phone emits 0.6W of 1.6GHz radio waves. What is the intensity of the radio waves at a distance 3cm from the antenna on the phone in any direction? Assume the radio waves emitted from the phone pass through a sphere 3cm in radius centered on the cell phone.
2.	What are the amplitudes of the electric and magnetic field at a distance 3cm from the antenna on the phone?

