Quiz-20-Nov-2013	Name: solution	Number:
	Id#:	Section: 14

What is the charge on a conducting sphere of radius R = 0.20 m if the potential at a distance r = 0.10 m from the center of the sphere is 1500 V. Take V = 0 at infinity.

$$V = \frac{kQ}{R}$$

$$Q = \frac{VR}{k} = \frac{(1500)(0.2)}{9\times10^{9}}$$

$$= 3.3\times10^{-8}\,C$$

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