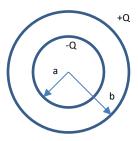
EXAMPLE: SPHERICAL CAPACITOR (USING CALCULUS)

What is the capacitance of two concentric spherical shells, one of radius a and one of radius b, with a < b? Consider the charge on each sphere to be +/- Q.



EXAMPLE: CYLINDRICAL CAPACITOR (USING CALCULUS)

What is the capacitance per unit length of two concentric, infinitely long cylindrical shells, one of radius a, and one of radius b, with a < b. Consider the charge on each cylinder to be +/- Q.