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| 1. Six identical capacitors with capacitance Care connected as shown in the figure below.http://session.masteringphysics.com/problemAsset/1074554/3/knight_Figure_30_68.jpg.

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| a) What is the equivalent capacitance of these six capacitors? |
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| b) What is the potential difference between points a and b? |

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2. The potential at the center of a 3.00-cm-diameter copper sphere is 900 , relative to at infinity. How much excess charge is on the sphere?