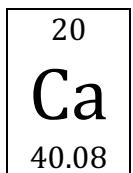


Name: \_\_\_\_\_



1. Draw the ground-state orbital diagram for the calcium anion  $\text{Ca}^-$ .
2. Is the ionization energy of  $\text{Ca}^-$  greater than or less than the neutral calcium atom?