

## Daily Problem 8

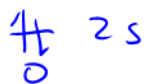
Name: \_\_\_\_\_

Score: \_\_\_\_\_

- 1) Write the electron configuration for sulfur.



- 2) Draw an energy level diagram for sulfur. What are the four quantum numbers for the last electron to fill up sulfur?



Last  $e^-$  in red!

$$n = 3$$

$$l = 1 \text{ (p-orbital)}$$

$$m_l = -1$$

$$m_s = -\frac{1}{2}$$