

Homework #9
(Bond Strength; Lewis Dot Structures)
CHEM 11 (S 2016, LAC)
(Due Thursday, April 21)

1. Choose which you think will have the strongest bond from each pair and give a reason.

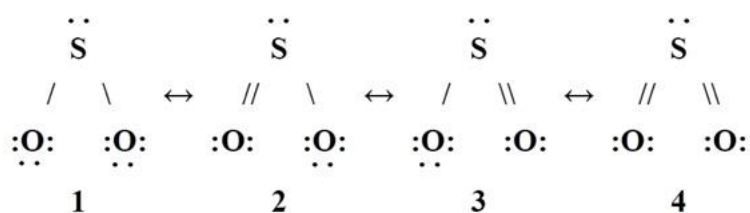
H-F or H-Br

H-O or H-S

2. Which of the following will have the shortest bond length and why?

I₂, Br₂, Cl₂, or F₂

3. Check out the four Lewis dot structures for SO₂ shown below by seeing if they obey the octet rule and what the formal charge on each atom in each structure is.



4. Use the rules given in class to find the Lewis dot structure for the hydrosulfuric acid (H₂SO₄) molecule and the carbonate ion [CO₃]²⁻.