1) What is the chemical formula of chromium (III) sulfate? $50y^{-2}$ (Show work-write the charges & show how they criss-cross.) (5 pts)



2) What is the chemical name of SO₃? (5 pts)

3) Calcium chloride reacts with potassium sulfate according to the following imbalanced chemical equation:

[CaCl₂ + [K₂SO₄ =====> [CaSO₄ + [ZKCl { /-Ca 2-Cl 2-K /-s 4-0} a) What type of reaction is this? Druble Replacement

- b) Balance the equation. Write in the correct coefficients. What is the sum of the coefficients (counting both sides of the equation)?
- c) Do an "atom count". What is the total number of atoms of reactants? _____/O_____
- 4) A student measured the % water in a hydrate to be 8.5
- %, but the accepted value 11.0%. What is the %error?

Write the formula. Plug in the numbers. Write the calculated answer. Circle your final (precise) answer.(5pts + 5 pts)

/o Error = Measured - Accepted × 100 negatives

Accepted -2.502 2 sig Figs

/o Erron = 8.5 - 11.0 × 100