56.	Will a precipitate form if 1.0 L of 3.0×10^{-10} M Fe ²⁺ is added to 1.0 L of 1.2×10^{-8} M S ²⁻ ?
58.	What F^- concentration must be present to just start precipitating CaF_2 from a 3.0×10^{-3} M solution
	of $\mathrm{Ca(NO_3)_2?}$ $\mathrm{K_{sp}}=1.5\times10^{-10}$ for $\mathrm{CaF_2}.$
59.	Will a precipitate form when 10.0 mL of 1.0×10^{-3} M Pb(NO ₃) ₂ is added to 40.0 mL of 1.5×10^{-4} M Na ₂ SO ₄ ?
60.	A precipitate barely forms when 20.0 mL of 3.00×10^{-3} M Ni ²⁺ is added to 60.0 mL of 2.52×10^{-4} M CO ₃ ²⁻ What is K _{sp} for NiCO ₃ ?
61.	Does a precipitate form when 25.0 mL of 1.0×10^{-4} M $\rm Zn(NO_3)_2$ is added to 45.0 mL of 2.4×10^{-5} M $\rm Ca(OH)_2$? $\rm K_{sp}=4.1\times10^{-17}$ for $\rm Zn(OH)_2$.

62. When 100.0 mL of 4.0×10^{-2} M CaCl₂ is added to 150.0 mL of 2.9×10^{-2} M NaOH, a precipitate of Ca(OH)₂ just starts to form. What is $K_{\rm sp}$ for Ca(OH)₂? 64. Predict whether a precipitate will form when 20.0 mL of 5.0×10^{-5} M Ca²⁺ is added to 35.0 mL of 2.5×10^{-4} M C₂O₄²⁻ and the resulting solution is boiled down to a total volume of 25.0 mL. 65. If a precipitate can be detected as soon as it begins to form, what is the minimum concentration of ${\rm CO_3^{2-}}$ that can be detected in a solution having [Ag⁺] = 0.050 M? 69. If 0.02 M AgNO3 is added to a solution containing 1.0 M $\mathrm{CO_3^{2-}}$, 1.0 M $\mathrm{IO_3^{-}}$ and 1.0 M $\mathrm{CrO_4^{2-}}$, which precipitate will form first?