

Write a reaction equation for each of the following compounds or write NO REACTION if no reaction would occur. **Circle** any answers that will result in a **buffer** solution.

a) 0.25M HCl + 0.25M HF

b) 0.15M HI + 0.20M CsOH

c) 0.50M HNO₂ + 0.35M KNO₂

d) 0.25M Ba(OH)₂ + 0.70M NH₃

e) 0.85M NH₃ + 0.60M NH₄

15.0 mL of 0.61 M NaOH is added to a 100. mL solution of 0.279 M H₃BO₃. What is the equilibrium concentration of H₂BrO₃⁻ ions? (K_a for H₃BO₃ = 5.8 × 10⁻¹⁰)