Name	Key
------	-----

Chem 370 - Spring, 2019 Fifteen Minute Quiz No. 7

- 1. (2 points) In terms of either the Brønsted-Lowry theory (extended to non-aqueous protonic solvents) or the solvent system concept, indicate whether each of the following reactions would result in a solution that is acidic or basic:
 - a. In solvent $ClF_3(l)$, $ClF_3 + NOF \rightarrow NO^+ + ClF_4^-$

Acidic or basic? basic

b. In solvent $NH_3(l)$, $NH_3 + CH_3CO_2H \rightarrow NH_4^+ + CH_3CO_2^-$

Acidic or basic? acidic

2. (1 point) Circle the acid that *would not* be considered to be leveled in solvent water.

HClO₄

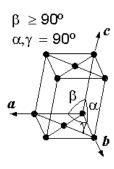
HI

 H_2S

 H_2SO_4

HClO₃

3. (2 points) shown below is one of the fourteen Bravais lattices.



Give the name of this lattice.

Face-centered monoclinic¹

Is it primitive or non-primitive?

Non-primitive

How many lattice points does it contain?

2

¹Also called end-centered monoclinic or base-centered monoclinic.