Chem 1B Homework - Chapter 16– Acid-Base Equilibria

These problems can be found on pp. 708-715 of the textbook.
Problem numbers in parentheses are optional, but you should at least look at them and make sure you know how to do them.

1, 2, 15, (16), 17, 19, 21, 29ab, 30b, (31), (35 this one is tedious, but you should know how to do it), 41, 43abc, 45ab, (49), 51, 53, 57, 61, 63ac, <u>65</u> (calculate all ion concentrations), 69, 71, 73, 75bc, 77ab, 79a, 83, 85, 87, 89, 91, 95, 97, 12 (yes, #12, out of order but it makes more sense this way)

Additional problem:
Calculate the concentration of H_3PO_4, $H_2PO_4^-$, HPO_4^{2-}, PO_4^{3-}, H_3O^+, and OH^- in a 0.0250 M solution of $H_3PO_{4\,(aq)}$. Determine the pH of the solution.