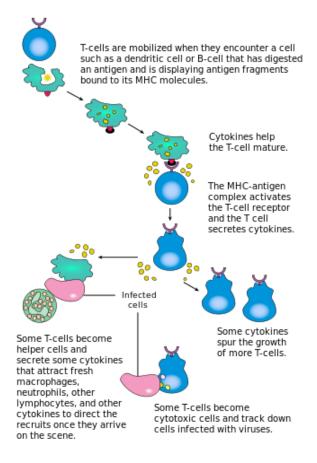
CONCEPT: IMMUNE SYSTEM COLLABORATION

- The innate immune system responds ______ to a pathogen
 - □ Toll Like Receptors (TLRs) recognize pathogens
 - Causes WBCs to take up pathogen, and begin breaking it apart, and presenting it via MHC molecules
 - □ Dendritic cells are antigen presenting cells (innate immune system) that _____ antigens to T_h cells
 - T_h cells then secrete inflammatory molecules (**cytokines**) which increase:
 - Numbers of WBC
 - Migration of WBC into infection site
 - Increase cell-adhesion molecules so WBC can attach to infection site
 - Th cells can also activate _____ cells
 - T_{h1} cells activate macrophages and T_c cells to kill internalized pathogens
 - The cells activate B cells to secrete antibodies to target extracellular pathogens

EXAMPLE:



PRACTICE:

- 1. Choose the following with the proper order of immune system activation.
 - a. B cell \rightarrow T cell \rightarrow Dendritic cell \rightarrow infection
 - b. Infection \rightarrow T cell \rightarrow Dendritic cell \rightarrow B cell
 - c. Infection \rightarrow dendritic cell \rightarrow T cell \rightarrow B cell
 - d. Infection \rightarrow B cell \rightarrow dendritic cell \rightarrow T cell