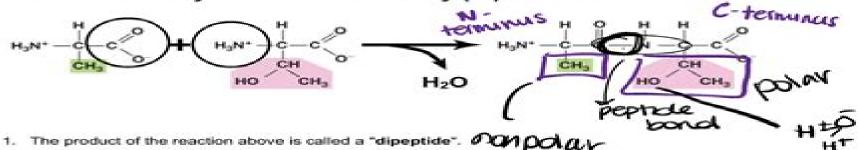
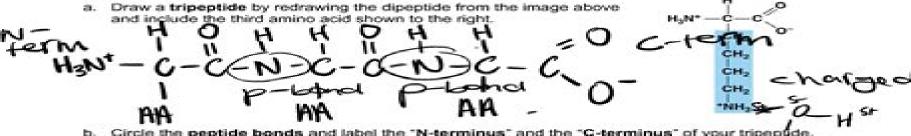
MODEL A: Polymerization & Primary (1°) Structure



- - Which two functional groups are involved in this reaction? Circle and label these two groups on the reactants. Carboxy) and amino group
 - Circle and label the new peptide bond formed between the two amino acids.
 - c. Does a peptide bond involve the amino acid "backbone" or R-groups? (Circle one.)
 - d. Draw a square around each amino acid in the dipeptide. An amino acid that is part of a polypeptide chain is referred to as a "residue."
 - Label the "N-terminus" and the "C-terminus" (also known as the amino- and carboxy-termini) of the dipeptide molecule, ("terminus"="end")
- The addition (polymerization) of amino acid monomers is directional, with new amino acids added only onto the C-terminus of the growing polypeptide chain.



- Circle the peptide bonds and label the "N-terminus" and the "C-terminus" of your tripeptide
- Assign each term: charged, nonpolar, and polar to the correct R-group in your tripeptide.
- Two of your R-groups are hydrophilic and can form hydrogen bonds with water. Draw two H₂O molecules interacting with your tripeptide, using dotted lines to represent the hydrogen bonds. Label the partial charges of the atoms involved in each hydrogen bond you draw.

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G. N. Ramachandran

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