

Name: _____ Student ID: _____
CHEM 161 PAL Fall 2026

Worksheet # 8: Ramachandran Plots

1. Using the Protein Data Bank website search for the proteins below using their PDB ID and answer the questions below.
 - a. PDB ID: 4cha
 - i. Name of protein:
 - ii. Types of secondary structure:

 - b. PDB ID: 1mba
 - i. Name of protein:
 - ii. Types of secondary structure:

 - iii. Number and location of disulfide bridges if present:

 - c. PDB ID: 7p93
 - i. Name of protein:
 - ii. Types of secondary structure:

 - iii. Number and location of disulfide bridges if present:

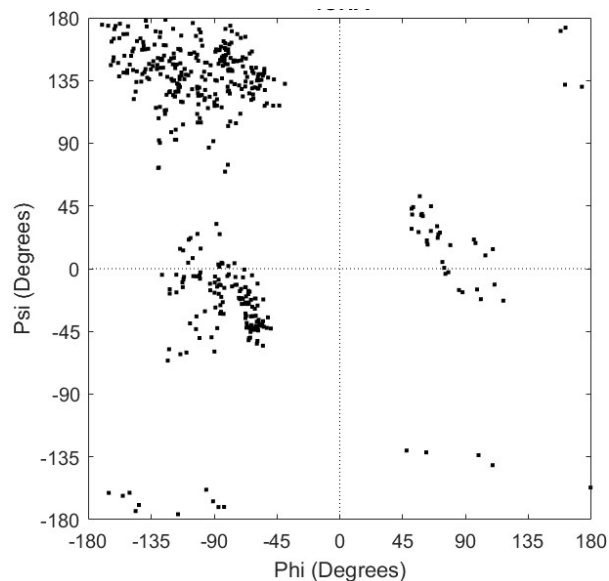
 - d. PDB ID: 4rxw
 - i. Name of protein:
 - ii. Types of secondary structure:

 - iii. Number and location of disulfide bridges if present:

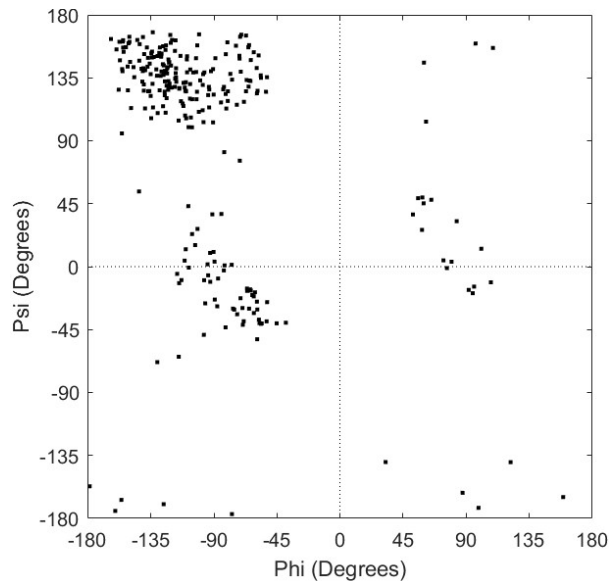
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2. Match the Ramachandran plots below to the proteins in Question 1. Write the PDB ID next the corresponding Ramachandran plot.

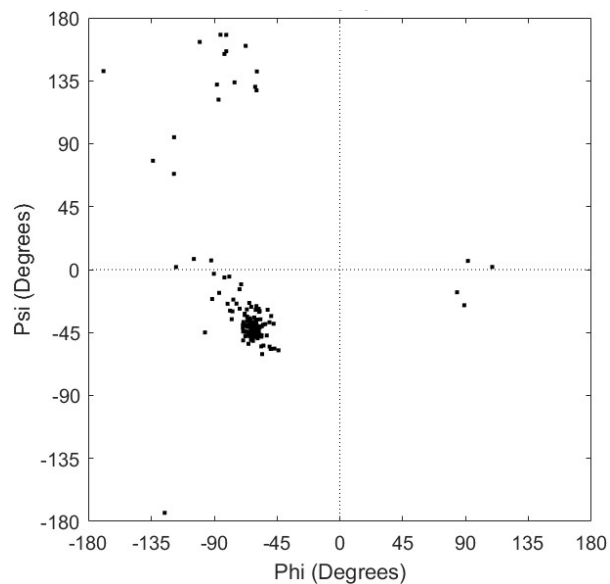
Plot A: _____



Plot B: _____



Plot C: _____



Plot D: _____

