1. Perform the following addition using unsigned 8-bit arithmetic. Show how the PIC18F would represent these numbers in Hexadecimal.

2. Perform the following subtraction using signed 8-bit 2's complement arithmetic. Verify your answer in base 10.

- 3. What is the memory capacity of a 22-bit address bus? How many address lines would be required for a 256K memory?
- 4. Draw the registers and buses (including their sizes) used to fetch an instruction from Program Memory in the PIC18F.
- 5. Draw the registers and buses (including their sizes) used to read a byte from Data (File) Memory in the PIC18F.
- 6. What are the special function registers and their address range in the PIC18F?