1. Given the flowchart shown to the right, determine the value of B if
   
   (a) A = 12  B = __________
   (b) A = -12 B = __________
   (c) A = 2  B = __________
   (d) A = -2  B = __________
   (e) A = 0  B = __________

2. Write MATLAB statements that could be used to implement the flowchart shown above.

3. A function f(t) is defined as follows:  
   \[ f(t) = \begin{cases} 
   2 & t < -2 \\
   2 \cos(2t) & -2 \leq t \leq 2 \\
   2 & t > 2 
   \end{cases} \]
   Write two sets of Matlab statements that could be used to evaluate and plot f(t) over the range -5 \( \leq t \leq +5 \) .

4. Do problem 4.7 (page 215) in your text.

5. Do problem 4.8 (page 216) in your text.