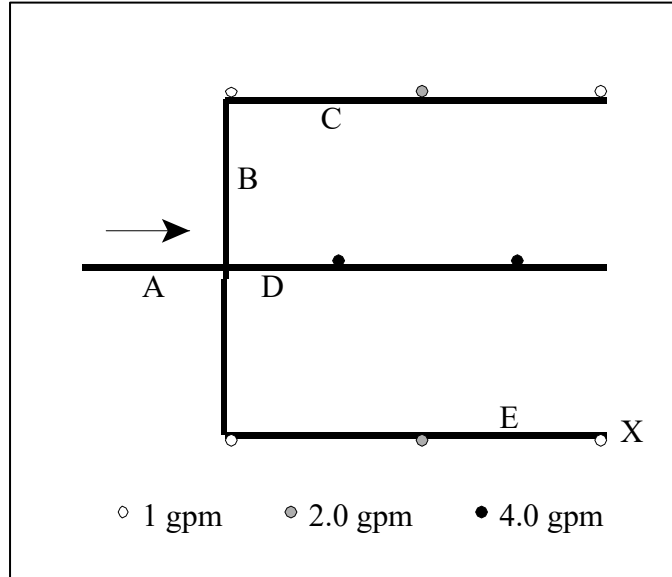# Hydraulics Design Problem

Complete the following table for the above system design. Choose the appropriate pipe diameter while limiting water velocity to 5 ft/sec. Use the friction loss chart provided for **Class 200 PVC** pipe.

Section	Section Length (feet)	Flow Rate (gpm)	Selected Pipe Dia. (inch)	Friction Loss (psi/100 feet)	Total Loss in Section (psi)
A	30				
B	25				
C	30				
D	12				
E	30				

Assuming a static pressure of **50 psi** and **7 psi** loss though valves and fittings, what is the operating pressure for sprinkler **X**?