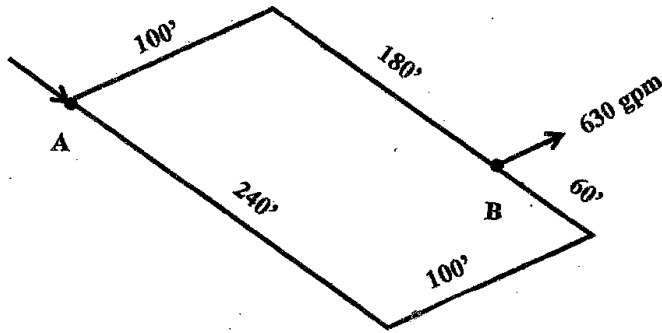


Part A

OBJECTIVES

Upon completion of this laboratory exercise students will be able to establish flow split and the friction loss for the following loops using the trial and error method and Method 2.

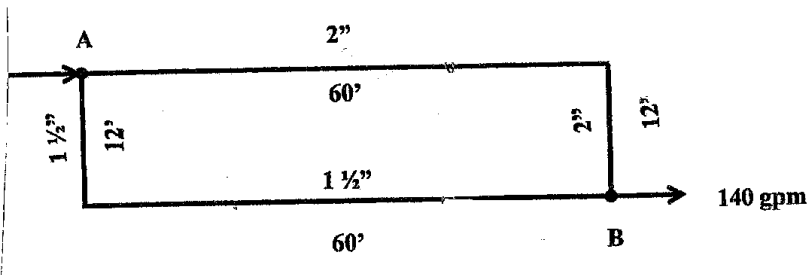
1. Solve using the trial and error method. All Pipe is 4-inch, $C=100$, Unlined Cast Iron. In order to receive full credit, you must show full work on a minimum of 2 iterations, additional guesses, all work is not required to be shown. You must provide the final answer.



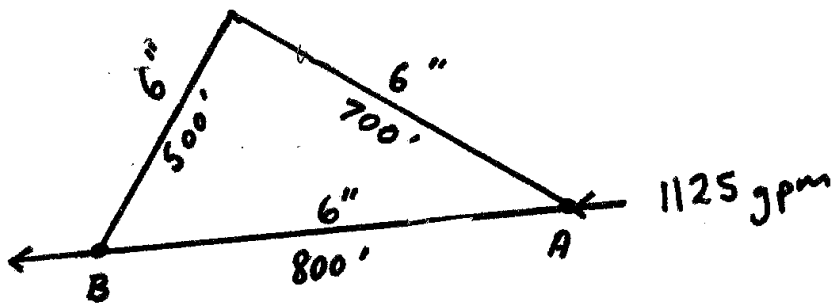
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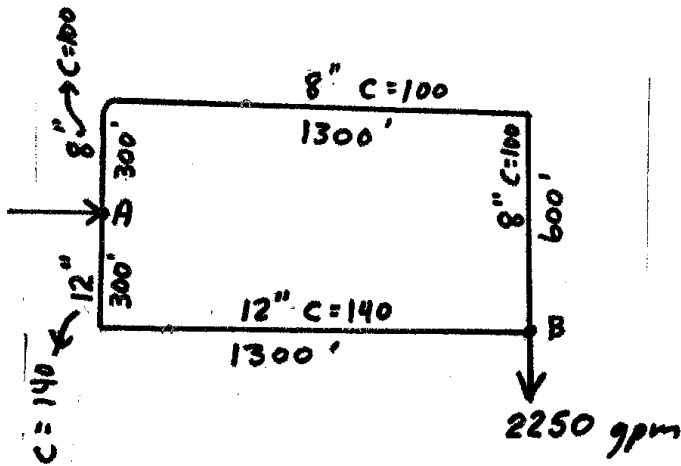
2. Solve using Method 2. All pipe is Schedule 40 Steel, $C = 120$.



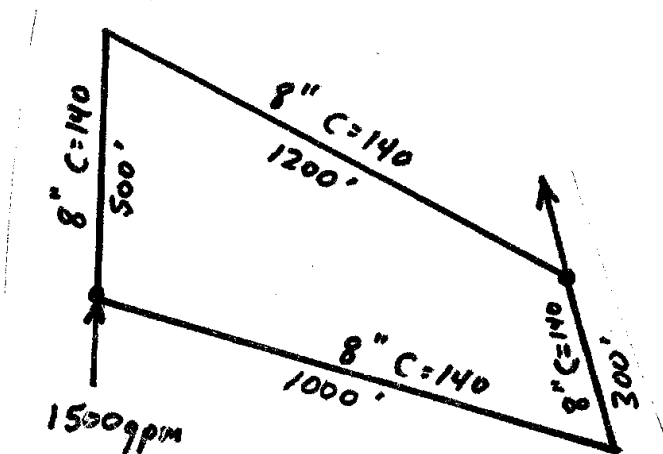
3. Solve using Method 2. All pipe is unlined cast iron, $C = 100$.



4. Solve using Method 2. All pipe is cast iron. The pipe with a $C = 140$ is Cement Lined Cast Iron. The pipe with a $C = 100$ is Unlined Cast Iron.



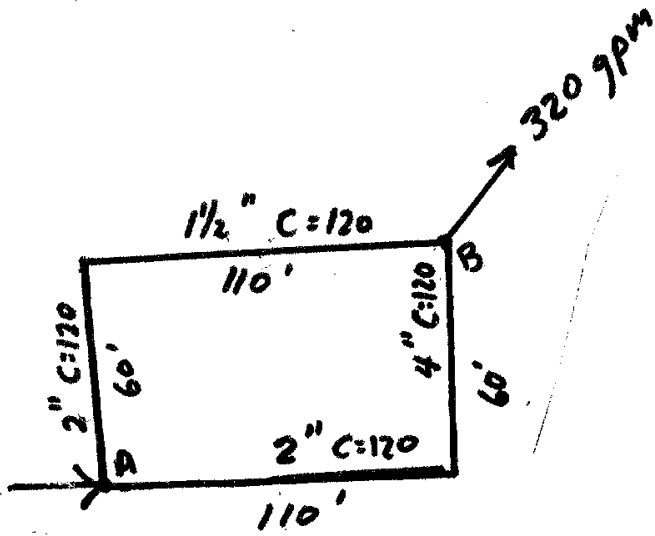
5. Solve using Method 2. All pipe is CL 52 Ductile Iron.



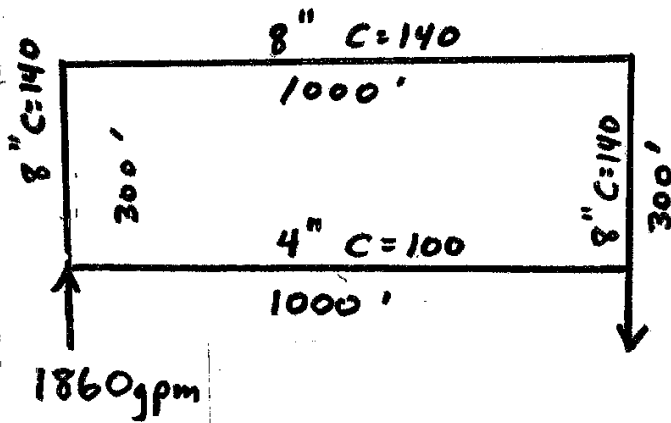
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6. Solve using Method 2. All pipe is Schedule 10 Steel.



7. Solve using Method 2. All pipe is unlined or cement lined cast iron.



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8. In the situation shown below, determine the pressure existing at B if 1500 gpm are flowing from the hydrant and the fire pump can deliver 1500 gpm at a pressure of 115 psi to Point A. All pipe is 8-inch with a C of 100.

