

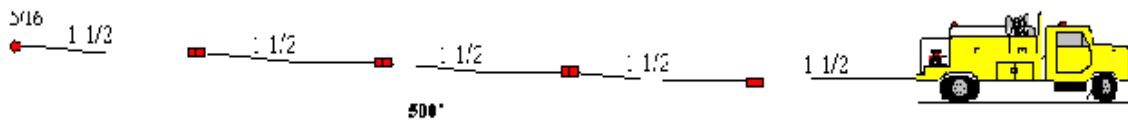


### Hydraulic Knowledge Test

<b>Location:</b>		<b>Date:</b>	
<b>Module:</b>		<b>Reviewed by:</b>	

1. Give definitions for the following:
  - a. Friction Loss -
  - b. Head Pressure -
  - c. Nozzle Pressure -
  - d. Cavitation -
  
2. What is atmospheric pressure at sea level? \_\_\_\_\_
  
3. Parallel pumping is used to:
  - a. Increase pressure
  - b. Increase volume
  - c. All of the above
  
4. Series pumping is used to:
  - a. Increase pressure
  - b. Increase volume
  - c. None of the above
  
5. Stage pumping is used to:
  - a. Increase pressure
  - b. Increase volume
  - c. None of the above
  
6. Complete the following friction loss calculations. Use the *Incident Response Pocket Guide* as a reference. Show all work in the space provided.
  - a. You are pumping a 1½-inch hose lay 500 feet long with a 3/8 inch tip. What is the PP? Compute and write your answer below.

NP=	
±H=	
+FL=	
+A=	
PP=	

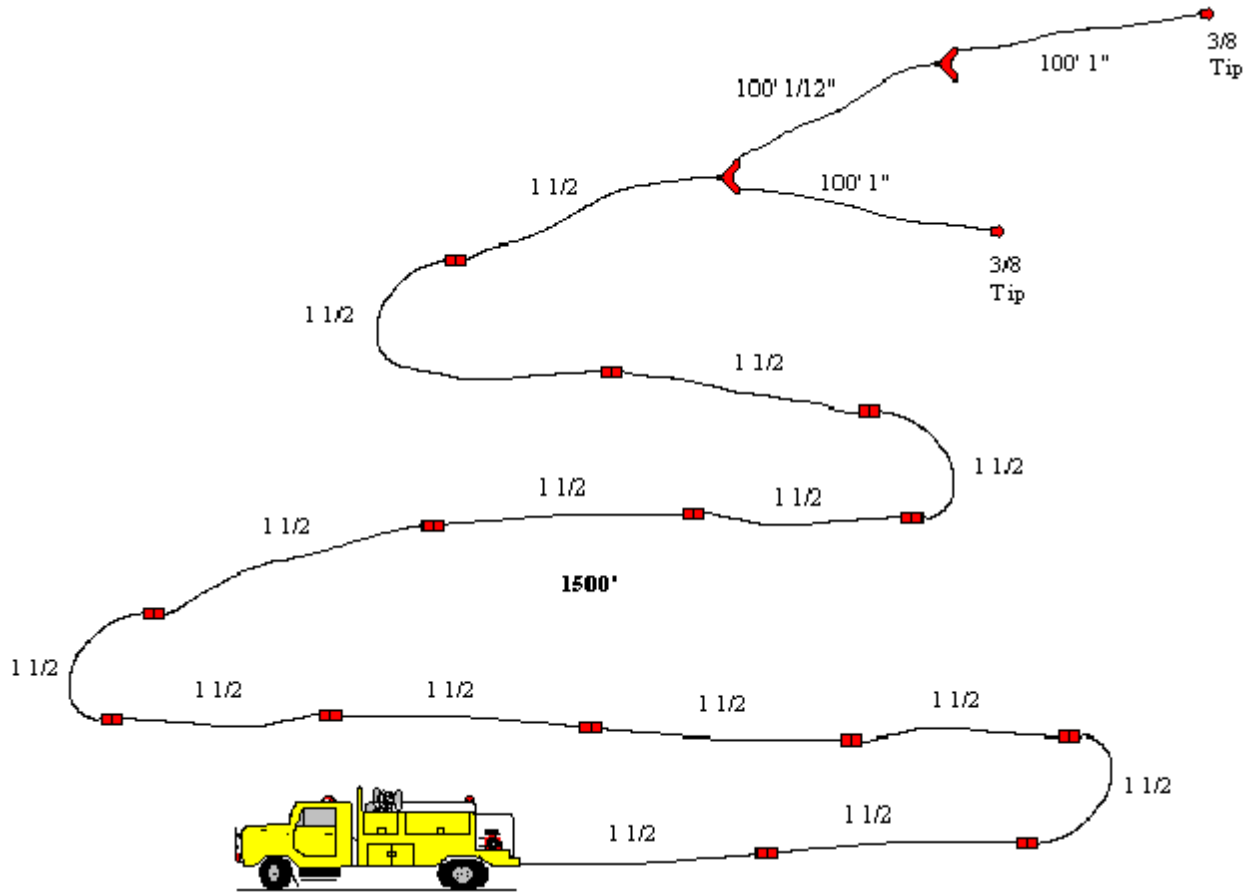




### Hydraulic Knowledge Test

- b. You are pumping to a hose lay with the first lateral at 1500 feet. You have another 100 feet of 1/2-inch hose to another lateral. Both laterals have 3/8 inch tips. What is the PP?

NP=	
±H=	
+FL=	
+A=	
PP=	





### Hydraulic Knowledge Test

- c. You are pumping to a 1½-inch hose lay with the first lateral at 900 feet. You have another 100 feet of 1½-inch hose to another lateral. Both laterals have 3/8 inch tips and are 180 feet above the pump.

NP=	
±H=	
+FL=	
+A=	
PP=	

