**Flow Rate Worksheet**

Solve for the given variable.

1. $V=17.23π(31.573)$
2. $556.73=804.25v$
3. The diameter of a well head is 12 ft. The oil has a flow rate of 50 g/m..
What is the velocity of the oil?
4. A garden hose has a diameter of ¾ inch and a velocity of 22.63 inches per minute.
What is the flow rate of the water in the hose in gallons?
5. Water flows through a sewer at a rate of 5 meters per minute with a velocity of .3 m/m.
What is the diameter of the sewer?
6. Firemen release the cap of a fire hydrant that is 7 lbs and has an inner circumference of 6.7 inches, in order to allow 7 gallons of water to flow out. After 1 minute the water is 2.75 feet from the base of the fire hydrant. After 4 hours, they replace the cap and shut of the water; the resulting puddle contains 11 gallons of water. What was the flow rate of the water?