



**Step 1: List Variables**

FLOW TEST ID# \_\_\_\_\_ \*

ST<sub>FT</sub> = Static Pressure @ Pressure Hydrant location \_\_\_\_\_ psi \*

RP<sub>FT</sub> = Residual Pressure @ Pressure Hydrant location \_\_\_\_\_ psi \*

Q<sub>FT</sub> = Flow rate @ Residual Pressure of flow test \_\_\_\_\_ gpm \*

Q<sub>DD</sub> = Flow rate of Design Demand \_\_\_\_\_ gpm

RP<sub>DD</sub> = Residual Pressure @ Pressure Hydrant @ Design Demand see below

\* = Directly read from FLOW TEST

**Step 2: Determine RP<sub>DD</sub>**

$$RP_{DD} = ST_{FT} - \left( (ST_{FT} - RP_{FT})^{1/1.85} * \frac{Q_{DD}}{Q_{FT}} \right)^{1.85}$$

$$RP_{DD} = \boxed{\phantom{000}} - \left( \left( \boxed{\phantom{000}} - \boxed{\phantom{000}} \right)^{1/1.85} * \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}} \right)^{1.85}$$

$$RP_{DD} = \boxed{\phantom{000}} - \left( \left( \boxed{\phantom{000}} \right)^{1/1.85} * \boxed{\phantom{000}} \right)^{1.85}$$

$$\boxed{\phantom{000}} - \left( \boxed{\phantom{000}} * \boxed{\phantom{000}} \right)^{1.85}$$

$$\boxed{\phantom{000}} - \boxed{\phantom{000}}^{1.85}$$

$$\boxed{\phantom{000}} - \boxed{\phantom{000}}$$

$$RP_{DD} = \boxed{\phantom{000}} \text{ psi}$$