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The solution $p u y C$ does not satisfy the equation and is already included in the homogeneous solution. The second simplest solution is $p u y Q y$. (1.15) The constant term does not need to be included. Inserting Eq. (1.15) into the governing equation gives $w w y y p y p :0 /u y V u y B V Q B Q B V$. (1.16) Hence the solution has the form

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SOLUTION First determine the head flow characteristic for the system. $\Delta H = \text{developed head of the pump} = 8 + 4fLu^2/2gd + \text{minor losses}$ No details are provided about minor losses so only the loss at exit may be found. $h_L = 4fLu^2/2gd + u^2/2g$ $\Delta H = 8 + 4fLu^2/2gd + u^2/2g$ $u = 4Q/\pi d^2 = 127.3 Q$

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