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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  $w = w_{yy} p = y p : 0$   
 $/u y V u y B V Q B Q B V$ . (1.16) Hence the solution has the form

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SOLUTION First determine the head flow characteristic for the system.  $\Delta H =$  developed head of the pump  $= 8 + 4fLu^2/2gd +$  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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