| Name: | Recitation Instructor: | : | | | |
|--|--|---|----------------------------------|-----|----------------------------|
| A horizontal section of narrow pipe is flow speed is negligible $(v_1 \approx 0)$. The the pipe is $P_{gauge} = 4.0 \mathrm{atm}$. There the wall of the pipe, and water exists What is v_2 ? For the limit check, investif the gauge pressure inside the pipe definition. | the gauge pressure inside - v_2 is a pinhole-sized leak in - v_2 the hole with speed v_2 . Figate what happens to v_2 - v_3 | Representation: Physics Concept(s): Initial Equation(s): Symbolic Answer: Units Check: Limits Check: Neatness: Total: Correct Answer: | 0 0 0 0 0 0 -2 | 0.5 | 2 1 1 1 1 0 |
| | | | | | |

Representation

Physics Concept(s) (Refer to the list posted on Carmen)

Initial Equations

Due Date: 11/13/2022

| Algebra Work (Symbols only. Don't plug in any numbers yet.) | | | |
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| Symbolic Answer: | | | |
| | T: 'A Class | | |
| Units Check | Limits Check | | |
| | a) As $P_{gauge} \to 0$, what limit does v_2 approach? | | |
| | | | |
| | b) Why does the result make physical sense? | | |
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| | | | |
| Numerical Answer: Obtain this by plugging numbers into your symbolic answer.) | | | |