

Manipulating Formulas II

Name _____

Take the given formula and solve for the variables requested.
If you are having difficulties with this assignment, here are some Internet links to help:
<http://www.studyphysics.ca/20/unit1/quick/manipulate/note.htm>
<http://www.brynmawr.edu/nsf/tutorial/ss/ssalg.html>
For additional Net help, do a google search on **manipulating equations**.

Problem 1:

$$\text{density} = \text{mass} / \text{volume}$$

- A) Solve this equation for mass:
B) Solve this equation for volume :
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Problem 2:

$$p = mv$$

This equation calculates the momentum (p) of an object.

- A) Solve this equation for mass (m):
B) Solve this equation for velocity (v) :
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Problem 3:

$$PE = (\text{mass})(\text{gravity})(\text{height}) \quad \text{or} \quad PE = mgh$$

This equation calculates the Potential Energy of an object.

- A) Solve for mass (m):
B) Solve for height (h):
C) Solve for gravity (g):

