

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Literal Equations

When solving literal equations, we will follow the same steps as solving any other equations. The SADMEP pattern is useful way to remember your order of operations.

**Solve the following pairs of equations for x:**

1a) $x - 7 = 8$	1b) $x - b = a$
2a) $4x = -12$	2b) $-3x = m$
3a) $2x - 5 = 11$	3b) $2x - 9 = d$

For the following problems, use the left-hand side to solve for the requested variable. Use the right-hand side to explain what you did each step. If your right-hand side doesn't match SADMEP, you might want to re-think your steps.

Work	Reasons
4) $ax + by = c$ (solve for y)	Given

Work	Reasons
5) $D = \frac{1}{4}j(7f + g)$ (Solve for g)	Given