Literal Equations

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve the formula for the indicated variable.

1) $A = bh$, for h

    A) $h = Ab$
    B) $h = \dfrac{A}{b}$
    C) $h = \dfrac{b}{A}$
    D) $h = A - b$

1) _____

2) $P = 2l + 2w$, for w

    A) $w = P - 2l - 2$
    B) $w = \dfrac{P}{2} - 2l$
    C) $w = \dfrac{P}{2l + 2}$
    D) $w = \dfrac{P - 2l}{2}$

2) _____

Solve for y.

3) $5x + 9y = 7$

    A) $y = \dfrac{16}{5x}$
    B) $y = \dfrac{7 - 5x}{9}$
    C) $y = 5 + 5x$
    D) $y = 16 - 5x$

3) _____

4) $7x - 5y = 4$

    A) $y = 7x - 9$
    B) $y = \dfrac{7x + 4}{5}$
    C) $y = 7x + 9$
    D) $y = \dfrac{7x - 4}{5}$

4) _____

5) $5 = 7x - 8y$

    A) $y = \dfrac{7x - 5}{8}$
    B) $y = 13 + 7x$
    C) $y = \dfrac{7x + 5}{8}$
    D) $y = 13 - 7x$

5) _____

6) $7x + 9 = 5y - 9$

    A) $y = 7x - 18$
    B) $y = 7x + 18$
    C) $y = \dfrac{7x + 18}{5}$
    D) $y = \dfrac{7x - 18}{5}$

6) _____

Solve the formula for the indicated variable.

7) $I = Prt$, for P

    A) $P = r - It$
    B) $P = \dfrac{r - 1}{It}$
    C) $P = \dfrac{I}{rt}$
    D) $P = \dfrac{r - I}{1 + t}$

7) _____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

8) Solve the formula for y.

    $ax + by = c$

8) _____

9) Solve the formula for l.

    $P = 2l + 2w$

9) _____

1) B
2) D
3) B
4) D
5) A
6) C
7) C
8) $y = \dfrac{c - ax}{b}$

9) $l = \dfrac{P - 2w}{2}$