Name : _____

Score : _____ Date : _____

MATH MONKS

Algebra: Literal Equations

Solve each equation for the indicated variable.

1. $g = \frac{x - c}{x}$, for x

2. $8x + (-2) = -9 + 7x$, for x

3. $a(x - b) = c$, for x

4. $A = \frac{1}{2}h(a + b)$, for a

5. $4(2x - 3b) = 7x + 5b$, for x

6. $F = \frac{Gm_1m_2}{d^2}$, for G

7. $-27s = -x - 10v$, for x

8. $\frac{1}{F} = \frac{1}{F_1} + \frac{1}{F_2}$, for F

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MATH MONKS

Algebra: Literal Equations

Answers

1) $g = \frac{x - c}{x}$, for x

$x = \frac{c}{1 - g}$

2) $8x + (-2) = -9 + 7x$, for x

$x = -7$

3) $a(x - b) = c$, for x

$x = \frac{c}{a} + b$

4) $A = \frac{1}{2}h(a + b)$, for a

$a = \frac{2A}{h} - b$

5) $4(2x - 3b) = 7x + 5b$, for x

$x = 17b$

6) $F = \frac{Gm_1m_2}{d^2}$, for G

$G = \frac{Fd^2}{m_1m_2}$

7) $-27s = -x - 10v$, for x

$x = 27s - 10v$

8) $\frac{1}{F} = \frac{1}{F_1} + \frac{1}{F_2}$, for F

$F = \frac{F_1F_2}{F_1 + F_2}$