

2.5 Rearranging Formulas

PRACTICE

Directions: Pick the best solution that solves each equation for the indicated variable.

1) $\frac{c}{a} = rd$, for a $c(\frac{c}{c}) = rd(ca)$
 $\frac{c}{rd} = \frac{rdca}{rd}$
 a) $a = \frac{c}{rd}$
 b) $a = -crd$
 c) $a = c + rd$
 d) $a = c - rd$

2) $g = xc - y$, for x .
 $g = xc - y$
 $+y \quad +y$
 $\frac{g+y}{c} = \frac{xc}{c}$
 $\frac{g+y}{c} = x$
 a) $x = -cg + cy$
 b) $x = \frac{g-y}{c}$
 c) $x = -g - y - c$
 d) $x = \frac{g+y}{c}$
 G
E
P
A
S

Directions: Solve each equation for the indicated variable.

3) $2x - y = 7$, for y
 $-2x \quad -2x$
 $\frac{-y}{-1} = \frac{7-2x}{-1}$
 $y = -7 + 2x$

4) $12x + 4y = 16$, for y
 $-12x \quad -12x$
 $\frac{4y}{4} = \frac{16-12x}{4}$
 $y = 4 - 3x$

5) $2x - 3y = 9$, for y
 $-2x \quad -2x$
 $\frac{-3y}{-3} = \frac{9-2x}{-3}$
 $y = -3 + \frac{2}{3}x$

6) $2x - y = 10$ for x
 $+y \quad +y$
 $\frac{2x}{2} = \frac{10+y}{2}$
 $x = 5 + \frac{1}{2}y$

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<p>7) $A = \frac{1}{2}h(x+y)$, for x. GEMDAS</p> $\frac{2A}{h} = \frac{h(x+y)}{h}$ $\frac{2A}{h} = x+y$ $\frac{2A}{h} - y = x$	<p>8) $\frac{y-a}{m} = \frac{m(x-b)}{m}$, for x GEMDAS</p> $\frac{y-a}{m} = x-b$ $\frac{y-a}{m} + b = x$
<p>Directions: Simplify each expression.</p>	
<p>9) $(2x+6) + (6x^2+4x+8)$</p> $-6x^2 - 2x + 14$	<p>10) $(2y-5)(2y+5)$</p> $4y^2 + 10y - 10y - 25$ $4y^2 - 25$
<p>11) $(2x+6)(6x^2+4x-8)$</p> $12x^3 + 8x^2 - 16x + 36x^2 + 24x - 48$ $12x^3 + 44x^2 + 8x - 48$	<p>12) $(2y-5) + (2y+5)$</p> $4y - 0$ $4y$