Alg 1 4.3

Standard form

↓

no fractions (decimals)

in order $\underset{\substack{\uparrow \\ \text{pos.}}}{A}x + By = C$

$$y = 2x + 5$$

$$-2x \qquad -2x$$

$$-2x + y = 5$$

$$\frac{-2x}{-1} + \frac{y}{-1} = \frac{5}{-1}$$

$$2x - y = -5$$

$$y = -3x + 7$$

$$+3x \qquad +3x$$

$$3x + y = 7$$

$$4\cdot y = {}^{4\cdot}\frac{1}{4}x + {}^{4\cdot}3$$

$$4y = 1x + 12$$

$$-1x \qquad -1x$$

$$\frac{-1x}{-1} + \frac{4y}{-1} = \frac{12}{-1}$$

$$x - 4y = -12$$

$$3\cdot y = {}^{3\cdot}\frac{2}{3}x + {}^{3\cdot}6$$

$$3y = 2x + 18$$

$$-2x \qquad -2x$$

$$\frac{-2x}{-1} + \frac{3y}{-1} = \frac{18}{-1}$$

$$2x - 3y = -18$$

4. $y = {}^{4\cdot}\frac{1}{4}x - {}^{4\cdot}\frac{1}{2}$

$4y = 1x - 2$

$$\begin{array}{rcl} -1x & & -1x \\ \hline \frac{-1x}{-1} + \frac{4y}{-1} & = & \frac{-2}{-1} \end{array}$$

$x - 4y = 2$

$(1.5x) - 3y = 4.2$

${}^{10\cdot}1\frac{5}{10}x - {}^{10\cdot}3y = {}^{10\cdot}4\frac{2}{10}$

$10\frac{50}{10}$

$15x - 30y = 40\frac{20}{10}$

$\frac{15x}{3} - \frac{30y}{3} = \frac{42}{3}$

$5x - 10y = 14$

22. $m = 15$ $b = ?$

$(\underset{x}{9}, \underset{y}{195})$

$y - y_1 = m(x - x_1)$

$(y - 195) = 15(x - 9)$

$$\begin{array}{l}y - 195 = 15x - 135 \\ \quad +195 \qquad\qquad +195 \\ \hline y = 15x + 60\end{array}$$

㉓ $m = .5$ $(48, \$64)$

$$y - 64 = 0.5(x - 48)$$

$$\begin{array}{rcl} y - 64 & = & 0.5x - 24 \\ +64 & & +64 \\ \hline y & = & 0.5x + 40 \end{array}$$

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