

Substitution

$$4x + y = -5 - 4x \quad y = -4x - 5$$

$$2x + 3y = 5$$

$$2x + 3(-4x - 5) = 5$$

$$2x - 12x - 15 = 5$$

$$-10x - 15 = 5 + 5$$

$$\frac{-10x}{-10} = \frac{20}{-10}$$

$$x = -2$$

$$y = -4(-2) - 5$$

$$y = +8 - 5$$

$$y = 3$$

ANS. $\boxed{-2, 3}$

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Substitution

$$y = -3x - 8$$

$$y = 2x + 12$$

$$-3x - 8 = 2x + 12$$

$$-3x = 2x + 20$$

$$\frac{-5x}{-5} = \frac{20}{-5}$$

$$x = -4$$

$$y = -3(-4) - 8$$

$$y = +12 - 8$$

$$y = 4$$

ANS. $\boxed{-4, 4}$

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Meters

$d = \#$ of dimes
 $q = \#$ of quarters

$0.25(d+q) = 23$ (quantity)

(money) $0.1d + 0.25q = 4.55$

$$\begin{array}{r} .25d + .25q = 5.75 \\ .1d + .25q = 4.55 \\ \hline -.15d = 1.20 \\ \frac{.15}{.15} \quad \frac{.15}{.15} \quad \frac{8+q=23}{.15} \\ \hline d = 8 \quad q = 15 \end{array}$$

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$$y = -3x - 8$$

y-intercept = -8
slope = $-\frac{3}{1}$

$$y = 2x + 12$$

y-int. = 12
slope = $\frac{2}{1}$

$\boxed{-4, 4}$

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$$\begin{array}{r} -3x - 3y = -12 \\ + \quad -x + 3y = 16 \\ \hline -4x = +4 \\ \frac{-4}{-4} \quad \frac{-4}{-4} \\ \hline x = -1 \end{array}$$

$$-(-1) + 3y = 16$$

$$+1 + 3y = 16$$

$$\frac{3y}{3} = \frac{15}{3} \quad y = 5$$

$\boxed{-1, 5}$

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Elimination

$$\begin{array}{r} -3x + 2y = -18 \\ + \quad 4x + 8y = 12 \\ \hline 12y = -24 \\ \frac{12y}{12} = \frac{-24}{12} \\ \hline y = -2 \end{array}$$

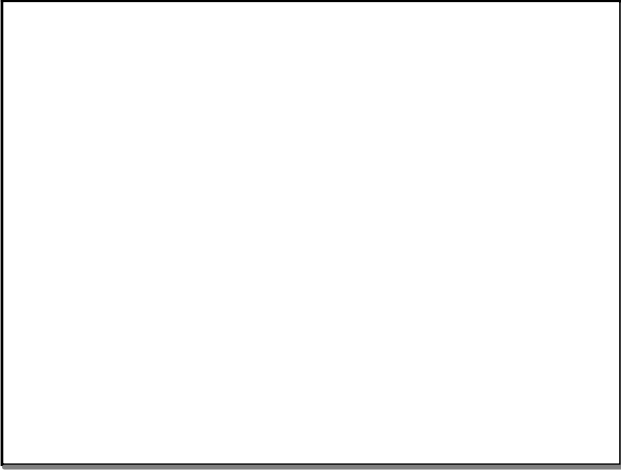
$$14x + 8(-2) = 12$$

$$14x - 16 = 12 + 16$$

$$\frac{14x}{14} = \frac{28}{14} \quad x = 2$$

$\boxed{2, -2}$

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