$$2x - y = -11 \quad ①$$
$$3x + y = -4 \quad ②$$

add $\frac{5x}{5} = \frac{-15}{5}$

$$\boxed{x = -3}$$

elimination only

Sub $x = -3$ into ②

$$3(-3) + y = -4$$
$$-9 + y = -4$$
$$\boxed{y = 5}$$

$\therefore$ solution is $(-3, 5)$

Feb 22-10:28 AM

p. 52 #23

\$2.30/kg \$3.20/kg

total of 200 kg at \$3/kg → \$600

Let x and y represent the mass of each coffee bean.

$$\boxed{\begin{aligned} x + y &= 200 \\ 2.30x + 3.2y &= 600 \end{aligned}}$$

$$23x + 32y = 6000$$

Feb 22-10:37 AM

PE: \$4 + \$1.50/kg

PP: \$5 + \$1/kg.

Let x represent the mass of the package

Let y represent the cost.

$$\boxed{\begin{aligned} 1y &= 1.5x + 4 \\ 1y &= x + 5 \end{aligned}}$$

sub.

$$0 = 0.5x - 1$$

$$\frac{-0.5x}{-0.5} = \frac{-1}{-0.5}$$

$$\boxed{x = 2}$$

Feb 22-10:48 AM

\$2000 at 9% and 10%

$\longrightarrow$ \$191 interest

Let x be investment at 9%

Let y be " " 10%

$$\boxed{\begin{aligned} x + y &= 2000 \\ x\left(\frac{9}{100}\right) + y\left(\frac{10}{100}\right) &= 191 \end{aligned}}$$

% = per cent

= per 100

$$0.09x + 0.10y = 191$$

Feb 22-10:53 AM