

Is
$$(-3,-4)$$
 a solution of

$$\begin{cases}
y = 3x + 5 \\
5x - 3y = -7
\end{cases}$$

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

$$-4 = -9 + 5$$

$$-4 = -9 + 5$$

$$-4 = -4 + \sqrt{3}$$

$$-15 + 8 = -7$$

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$$-15 + 9$$

$$\begin{cases} 4x - y = 9 \\ x - 3y = 16 \end{cases} \qquad \begin{cases} x - 1y + (0, -9) \\ x = 3y + 16 \end{cases} \qquad \begin{cases} x - y = 4x - 9 \\ x = \frac{4}{1} \end{cases} \qquad \begin{cases} x - y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{x + y}{16 + 0} \end{cases} \qquad \begin{cases} x - 3y = 16 \\ \frac{$$

Solve by addition Method:

$$\frac{1}{4}x - \frac{1}{4}y = \frac{2}{3} = -10 = 36$$
Hint: Use LCD to clear Stractions

 $\frac{1}{2}x - \frac{1}{3}y = 1 = -10 = 6$
 $\frac{1}{2}x - \frac{1}{3}y = 1 = -10 = 6$
 $\frac{1}{2}x - \frac{1}{3}y = 1 = -2 = 3x - 2y = 6$
 $\frac{1}{2}x - \frac{1}{3}y = 1 - 2 = 3x - 2y = 6$
 $\frac{1}{2}x - \frac{1}{3}y = 1 - 2 = 3x - 2y = 6$
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 $\frac{1}{2}x - \frac{1}{3}y = 1 - 2 = 3x - 2y = 6$
 $\frac{1}{2}x - \frac{1}{3}y = 1 - 2 = 3x -$

The Sum of two numbers is 100.

One of them is 3 times the other one.

Sind both numbers.
$$25 \stackrel{?}{\leftarrow} 75$$

(x + y = 100 USE Subs. method

 $x = 3y$
 $x = 3(25)$
 $x = 75$

Two angles are complementary.

Twice one of them plus three times the other one is
$$230^{\circ}$$
. -250° $+ 390^{\circ}$ -250° $+ 390^{\circ}$ -250° $+ 390^{\circ}$ $+ 390^{\circ}$

Two angles are Supplementary.

One of them is 30° more than

twice the other one.

$$\begin{cases} x + y = 180 \\ x = 2y + 30 \end{cases}$$

$$\begin{cases} x + 30 + y = 180 \\ x = 2y + 30 \end{cases}$$

$$\begin{cases} x + 30 + 30 \\ x = 250 \end{cases}$$

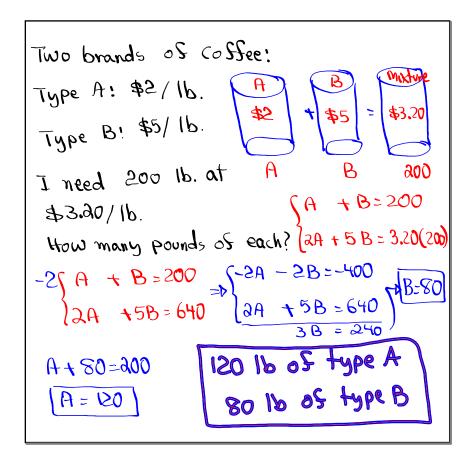
$$\begin{cases} x + 30 + 30 \\ x = 250 \end{cases}$$

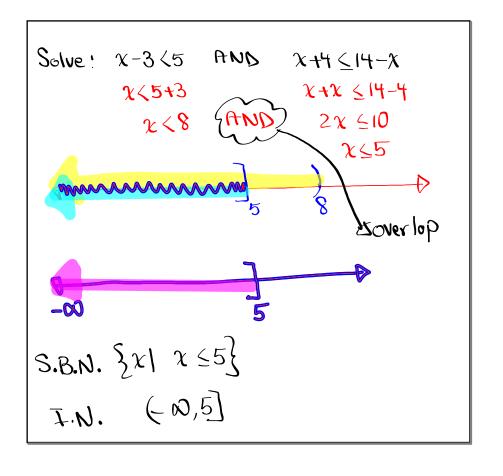
$$\begin{cases} x + 30 + 30 \\ x = 250 \end{cases}$$

I need 50 liters of 25% alcohol Solution.

I have unlimited supply of
$$(0\%) \approx 40\%$$
of alcohol Solutions. How many liters of each should I mix to obtain what I need?

10% 40% $= 25\%$ $= 25$





Solve
$$x-5 \le 13-2x$$
 OR $a > -5x-3$
 $x + 2x \le 13+5$ $5x > -3-2$
 $3x \le 18$ $5x > -5$
 $x \le 6$ OR pullatever shaded
 $-\infty$ S.B.N. $x \le 1$ $x \ge 1$ $x \ge 1$ $x \le 1$ $x \ge 1$ $x \ge$

$$S(x) = 5x + 3$$
1) $|S(x)| = -3$ $|5x + 3| = -3$
2) $|S(x)| = 3$ $|5x + 3| = 3$

$$5x + 3 = 3$$

$$5x = 0$$

$$5x = -6$$
3) $|S(x)| \ge 3$ $|x = -6$

$$|x = -6$$

$$|x = -$$

