

Feb 13-7:50 PM

Steps:

- 1. Write equations in the form a x + b y = c.
- 2. Look for the coefficients of one of the variables to be the same (sign does not matter).
- 3. If necessary, multiply one or both equations by a whole number to achieve step 2.
- 4. a) Same coefficient, same sign: subtract
 - b) Same coefficient, opposite sign: add.
- 5. Solve the resulting equation.
- 6. <u>Substitute</u> to find the value of the other variable.

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2. 5x + 2y = 5 \bigcirc 3x - 4y = -23 \bigcirc Since coefficients do not match,

multiply one (or both) equations

by a whole number.

Scould match ze or y, but y

seems easier. $\bigcirc x \ge : | 0x + 4y = | 0 \bigcirc 3$ $\bigcirc : 3x - 4y = -23$ and $\bigcirc : 3x - 4y = -23$ and $\bigcirc : 3x - 4y = -23$ Sub x = -1 into $\bigcirc : x = -1$ Sub x = -1 into $\bigcirc : x = -1$ $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$ Sub $\Rightarrow x = -1$ into $\Rightarrow x = -1$

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4.
$$\frac{x}{2} + \frac{y}{8} = 4$$
 0 $\frac{x}{3} - \frac{y}{2} = -2$ 2

LCD = 8 LCD = 6

① \times 8: $8(\frac{x}{2}) + 8(\frac{y}{8}) = 8(4)$
 $4x + y = 32$ 3

② \times 6: $6(\frac{x}{3}) - 6(\frac{y}{2}) = 6(-2)$
 $2x - 3y = -12$ ④

② \times 2: $4x - 6y = -24$ ⑤

③: $4x + y = 32$

Subtract

 $-7y = -56$
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