

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. Substitute to find the value of the other variable.

Ex.2. Solve:
$$x + y = 60$$
 $x - y = 8$

to $y = 4y = 60$ $y - (-y)$

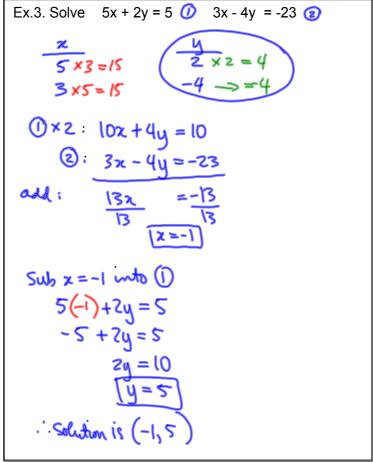
eliminate $x - y = 8$ $z = y + y$
 $y = 26$

Sub $y = 26$ into $x = 26$ (easiest)

 $x - (26) = 8$
 $x - (26) = 8$
 $x = 34$
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 $x = 34$
 $x = 34$

Solution is $x = 34$

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Ex.4.
$$\frac{x}{2} + \frac{y}{8} = 4$$
 ① $\frac{x}{3} - \frac{y}{2} = -\frac{2}{7}$ ②

** multiply by LCD of each ega

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

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

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Assigned Work:

p.54 # 1, 4, 6odd, 11odd