Math 10: Unit 7.3 (CHP 7.2) Solving Linear Systems of Equations by Elimination

A) Why solving by *elimination* when we can solve it by *substitution*?
-can be faster and easier

B) How to do it?

Ex: $3x+y=6$
$2x-y=4$

ii) what if there is no coefficient = 1?

Ex: $3x+2y=6$
$2x-2y=4$

Ex: $3x+2y=6$
$2x-3y=4$

C) What if there are fractions?
-mulitiply by LCD to get rid of the fractions…then same steps as before

Ex: $\frac{1}{3}x + \frac{1}{2}y = 6$

$\frac{1}{2}x - \frac{1}{3}y = 4$

D) Always want: 1 variable to be positive
1 variable to be negative

Ex: 3x+2y=6
2x+2y=4

Ex: 3x-2y=6
2x-2y=4

Ex: $3x+2y=6$
$5x+3y=4$

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