Standard Form

*This is a format not a formula. You can only rewrite an equation into this format. You can't ever plug into it.

$Ax + By = C$ or $\#x + \#y = \#$

A,B,C can't be fractions or decimals

- if fraction x by LCD
- if decimal x by base 10

Also for most the problems, the book likes for A to be positive, so if negative change all the signs.

Jan 25-12:00 PM

Ex1a) $x + 3y - 4 = 0$

Ex1b) $y = 2x - 9$

Ex1c) $y = \frac{1}{2}x + 8$

Jan 25-12:33 PM

Try #1. $y = -2 + \frac{3}{4}x$

Jan 25-12:34 PM

Ex2) Given a point and slope write in standard form:

Ex2a) (-8, 3) m = 2

Ex2b) (1,4) m = ¾

Try #2. (2,-3) m = ½

Jan 25-12:35 PM

Ex3) Given 2 points write in standard form:

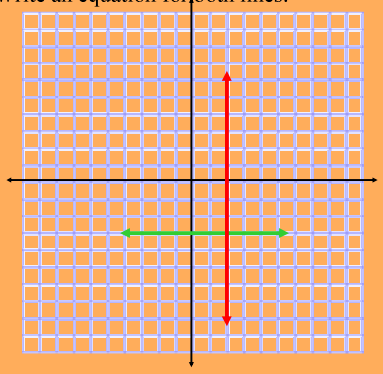
Ex3a) (6,2) and (8,-4)

Ex3b) (-2,5) and (2, 4)

Try #3. (-3,2) and (4,-1)

Jan 25-12:36 PM

Ex4a) Write an equation for both lines.



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Jan 25-12:37 PM

Ex4b) Write an equation horizontal and vertical to (-1, 4)

Jan 25-12:39 PM

Ex5) Real life applications:
Standard form has 2 rates (A and B) and a total (C).

Ex5a) If you go shopping and want to buy jeans at $40 each and shirts for $20 each, how many of each could you buy if you have a $100?

Ex5b) If you go to Game stop, they charge you $10 for used games and $30 for new games, how many of each could you buy if you had $100?

Jan 25-12:40 PM