

VA-BE TUESDAY 2-15-11

① Find the percent change:

② From 25 to 20

③ From 100 to 99

④ From 50 to 70

② Find EOL through $(2, 1)$, $(5, 6)$.

③ Write any EOL perpendicular to

$$y = -5x + 1$$

1.
If you have a linear equation, which means only x , y , numbers and $+$ or $-$ you can always combine all the x terms, y terms and numbers and SOLVE for y .

This gives you the most useful form of a linear equation, $y = mx + b$ called the slope-intercept form.

If, instead of solving for y , you put all the x and y terms on the left, and numbers on the right, it is called the STANDARD FORM OF A LINEAR EQUATION. $Ax + By = C$
ex) $2x + 3y = 1$

There are a couple of limits on the STANDARD FORM.

$$Ax + By = C$$

① The A term must be positive, if not, "CHANGE ALL SIGNS" to make it positive

ex) $-2x + 3y = -6$

$2x - 3y = 6$

STANDARD FORM

② $Ax + By = C$



The A, B, and C terms must NOT be fractions, multiply both sides by the bottom to get rid of a fraction.

ex) $\frac{1}{2}x + 3y = 5$ multiply by 2

$x + 6y = 10$

STANDARD FORM

You can switch forms as you like,
Ex) $2x + 3y = 1$ SWITCH TO S-I

$$3y = -2x + 1$$

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

ex) $y = 2x - 4$ SWITCH TO STANDARD

$$-2x + y = -4$$

$$\boxed{2x - y = 4}$$

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- Read Ch. 4-5
 - Pg 221 # 4-7, 16-18