LINEAR ECNATIONS

No variables in Denomination, No Padicals, No exponents. ONLY CONSTANT TERMS & VARIABLES) PASSED TO PHILOR 1. CAN BE WITHEN ax + b = 0.

e.g.
$$3x + 4 = 19$$

$$3x = 15$$

$$x = 5$$

EASY TO CHECK IF A # IS A SWILLIA cal Not

$$A = B \iff A + C = B + C$$

C CAN BE POSITIVE, NEGATIVE, OR AUY ALGEBRAIC EXPRESSION.

C CAN BE ANTIHUSE EXCEPT O.

LVE:

VAR LEFT . # RUGHT

$$ex. -3x + 2 = -10$$

LETT, VAR MIGHT

$$6x - 5 = 10 - x$$

$$\frac{2x}{3} + \frac{1}{6} = \frac{3x}{4} - \frac{1}{2}$$

NOWLULAN EC'S THAT ARE FOUNDED TO LUEAR ECUATIONS

$$\frac{3}{x-2} = \frac{4}{2x+1} \qquad (causs mud.)$$

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

$$\frac{1}{x+1} + \frac{1}{x-2} = \frac{x+3}{x^2-x-2}$$
 [Much. Both sides by LCD]

WHEN WE MURIPH BOTH SIDES BY VAR. EXPIR. WE ARE ASSUMING WE AREN'T Note MUDIPHING BY O. WE NEED TO CHECK THAT SOUTHING MAKE SOUSE!

$$\frac{ex}{x-4} = \frac{x+1}{x-4}$$

(No souriou!)

$$2 = \frac{x-4}{x-4}$$
 ?

SOLVING POWER EC'S

$$A^n = B$$

$$A^n = B \Rightarrow A = \sqrt[n]{B}$$
 IF $n = 15 = 000$

$$A = \pm \sqrt[4]{8}$$
 IF n is EVEN & $B \ge 0$

$$x^2 = 25$$

ex.
$$x^2 = 25$$
 ex. $x^3 = -27$ ex. $x^4 = -16$

$$(2x + 3)^2 = 4$$

Sound For the variable in terms of Andher

$$S = \frac{d}{t}$$
 \iff $St = d$ \iff $t = \frac{d}{S}$

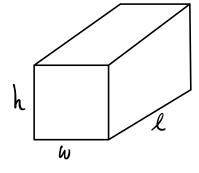
$$t = \frac{d}{s}$$

$$F = G \frac{mM}{r^2}$$

Sowe For M

Solve Fal r





Sowe For h.

TUESDAY: P.B GUIZ