•
$$3(2x-1) - 2(x+5) = -(x-3)$$

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

A 75% chlorine solution is to be mixed with a 40% chlorine solution to produce 12 gallons of 35% chlorine saution. How many gallons of each solution should be mixed.

Let x be the # of gallons of 25% chlorine solution.
y be the # of gal. of 40% ch. solu.

Then choose a method to solve for X&y.

The width of a rectangle is I in less than twice its length

The perimeter is 20 in, find length & width

Graph & find the slope of 3xt2y = 7

Find an eg for the line passing through pt (2,-3) & perpudicular to 2x-3y=10. Express either general (standard) form or slope-int form.

Solve systems:

$$[4x-3y^{2}]$$
 $[4x+3y=7]$
 $[2x-y=10]$

Expand:

(x-2) (x2+5x+6), 5(2x+1)2

Factor completely=

5x2-125, 5x2-18x-8,

Simplify: $\frac{8 \times 1}{(9 \times 5 y^3)^2}$, $\frac{8 \times 1}{2 \times 1/2}$, $\left(\frac{12 \times y^2}{8 \times 5 y^{-3}}\right)^{-2}$

Divide:

$$\left(5\times^2-\times-4\right)\div \left(\chi-1\right)$$

Rationalize the Denominator:

$$\frac{4}{\sqrt{5}+\sqrt{2}}$$

Solve:

Simplify:

$$\frac{x^2-25}{x^2-2x^{-15}} \cdot \frac{x^3+3x^2}{x}$$

Solve:

$$x^{2}+7x+5=0$$
, $3x^{2}+5x+2=0$, $1x-2+2=X$