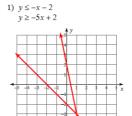
SOLUTIONS...

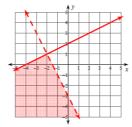
PUZZLE WORKSHEET:

What Did the Toothless Old Termite Say When He Entered a Tavern? Graph each part of ineculistic below and include the solution set of the pystem with crosshatching or shadon. The constanting of strating, if extended, should cover a set of three letters. Print Peter letters in the three boxes at the boxom of the page that contain the exercise number. (a) y < x - 1 y = -3 (b) x = 2 y < -3 3 x - 3y < 12 y < -3 3 x - 3y < 12 4 3 3 3 3 6 6 7 E N D E R H E R E 200 1886 Crainer Purchases

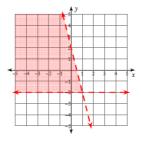
WORKSHEET:



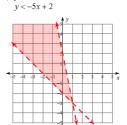




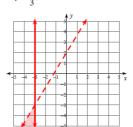
5)
$$4x + y < 2$$



2)
$$y > -x - 2$$

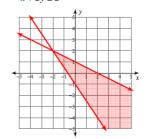


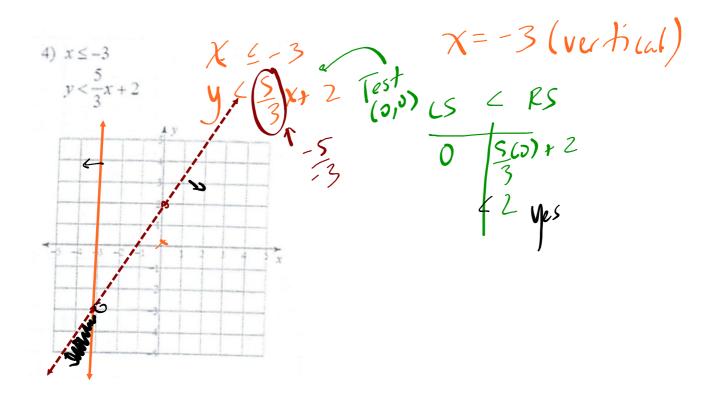
4)
$$x \le -3$$
 $y < \frac{5}{2}x + 2$

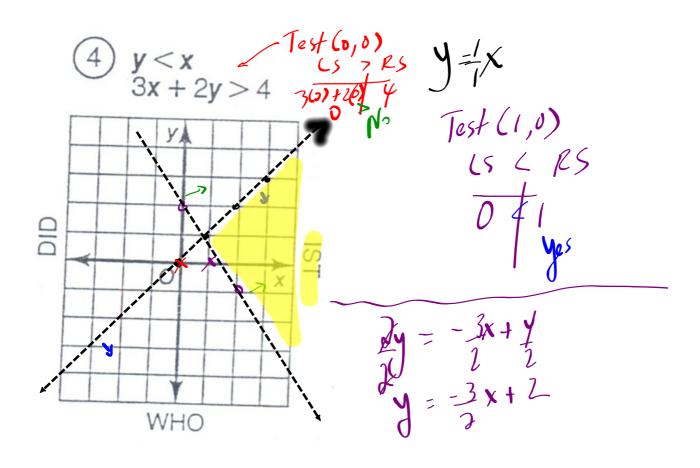


6)
$$3x + 2y \ge -2$$

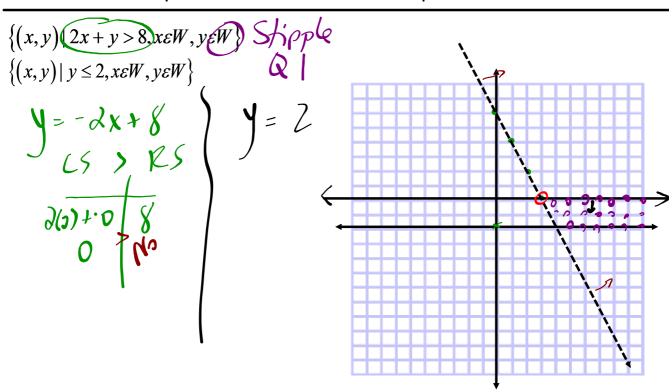
 $x + 2y \le 2$







WARM-UP: Graph the solution and state 2 possible solutions...



Applications: Systems Involving Inequalities

STEP 1 - Declare Variables State Restrictions

STEP 2 - Create Linear Inequalities

STEP 3 - Graph Solution Set

STEP 4 - Answer question(s)

EXAMPLE #1:

To raise funds for π -day, the PI Committee has 500 T-shirts to sell.

They have two varieties:

#1. 'I 8 St π ' or #2.' π - DAY 2018'.

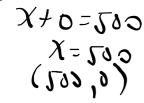
They expect to sell at least twice as many of the first as the second. 15t depends on 2nd

a) Define the variables and restrictions. Write a system

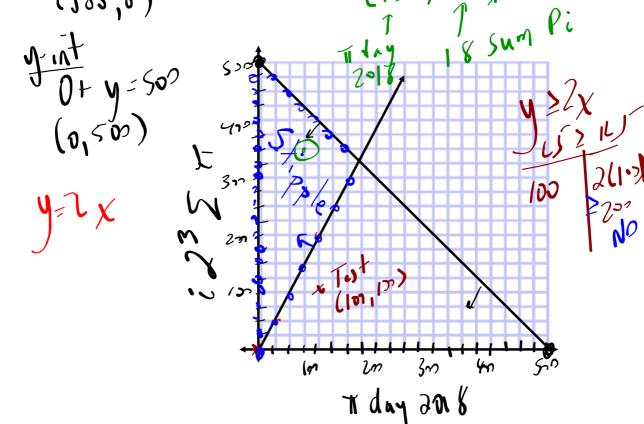




b) Graph the system of inequalities.



c) State a combination of T-shirt sales.



Variables...

Independent - is plotted on the x axis

ex: time, shots on goal

Dependent - is plotted on the y axis

ex: distance, goals scored

REMEMBER... You have ID the XY

ASK YOURSELF... 'What depends on what?'

Untitled.notebook February 14, 2018

HOMEWORK...

2. #1 & 2 p. 235: #2, 5 & 6