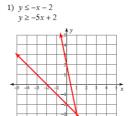
SOLUTIONS...

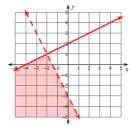
PUZZLE WORKSHEET:

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

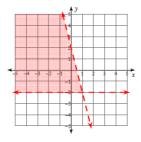
WORKSHEET:



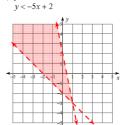




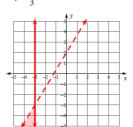
5)
$$4x + y < 2$$



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

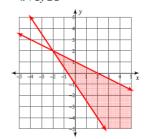


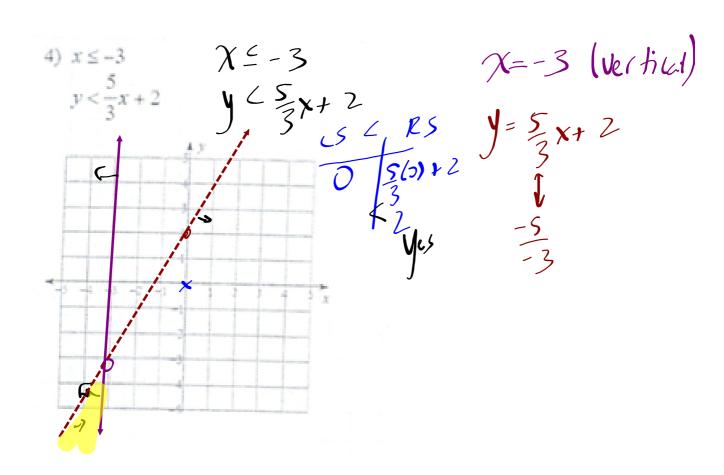
4)
$$x \le -3$$
 $y < \frac{5}{2}x + 2$



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

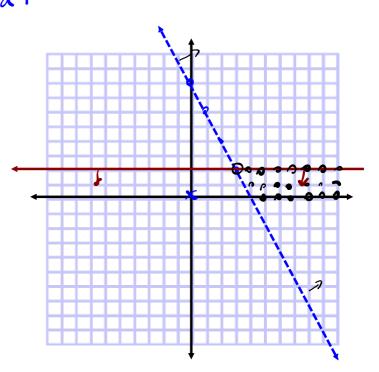
 $x + 2y \le 2$





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

 $\{(x,y)|2x+y>8,x\in W,y\in W\}$ $\{(x,y) | y \le 2, x \in W, y \in W\}$ 2x+y=8 y=-2x+8 (5) + 0 + 8 0 + 0 + 8



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 Sum π ' or #2.' π - DAY 2018'.

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

State a combination of T-shirt sales.

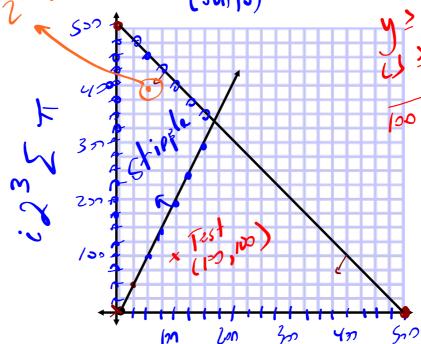
 $x + y \le 500$ y = 0x $y \ge 2x$ 6/10h 10/20

b) Graph the system of inequalities.

X+ y=500

K+0=500

(5bn,0)



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Variables...

Independent - is plotted on the x axis

ex: time, shots on goal

Dependent - is plotted on they axis

ex: distance, goals scored

REMEMBER... You have ID the XY

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

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HOMEWORK...

Quiz Tomoccow

p. 225: #1 & 2

p. 235: #2, 5 & 6