

Math 5a, homework 22.

1. Draw a coordinate sxis and show all x which comply with the condition:

Example: $-1 \le x < 4$

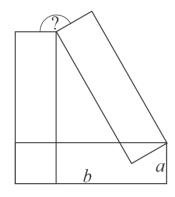
2. Solve the inequalities:

a.
$$2x > 6$$
;

b.
$$3y - 2 < 13$$
;

$$-x + 3 > 5$$

- 3. There are two kinds of loose-leaf tea in the store, one is \$8 per pound, and the other is \$5 per pound. How should the store owner mix them so that the blend would be \$6 per pound?
- 4. Three congruent rectangles are positioned as shown in the picture. What is the angle? (To draw the nice picture, you have to use the ratio of the sides 0.27, a = 0.27b)



- 5. 12% of boys and 8% of girls play in the school orchestra. What percentage of all students play in the school orchestra if boys make up 3/5 of all students?
- 6. Prove that the numbers 3^{33} , 3^{333} , 3^{3333} end with the same digit.