Math 5e, Homework 23
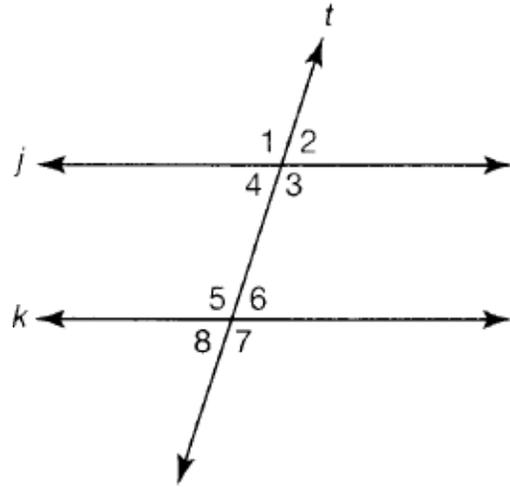
Instructions: Some of the problems we solved in class, and some are new. Please try to solve all problems, do your best, and show your work.
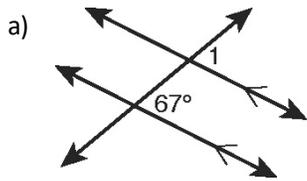
Two Parallel Lines Cut by a Transversal

Corresponding Angles: Write a sentence explaining how to find these angles. Then list these angles in pairs.

Alternate Interior Angles: Write a sentence explaining how to find these angles. Then lis these angles in pairs.
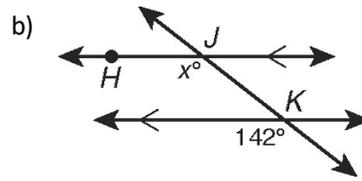
Alternate Exterior Angles: Write a sentence explaining how to find these angles. Then list these angles in pairs.

Same Side Exterior/Interior Angles: Write a sentence explaining how to find these angles. Then list in these angles in pairs.
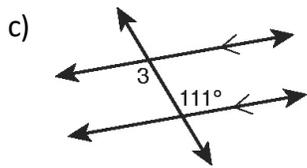
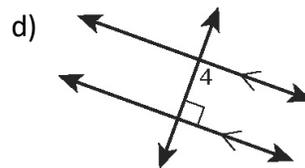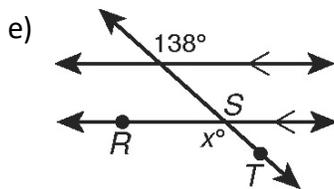**Problem 2:** Find the measure of each angle. You must show work or explain your amswer.

a)

∠1 _____

b)

∠HJK _____

c)

∠3 _____

d)

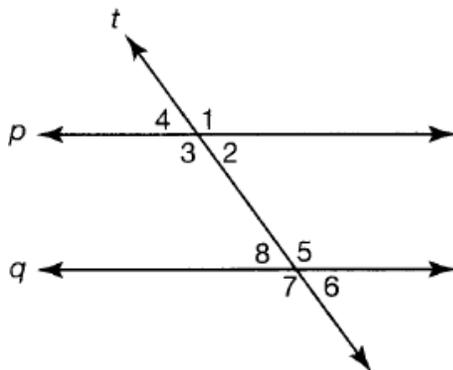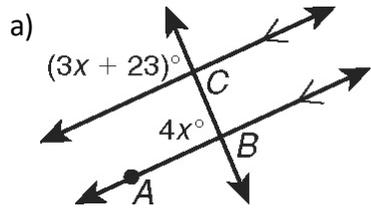∠4 _____

e)

∠RST _____
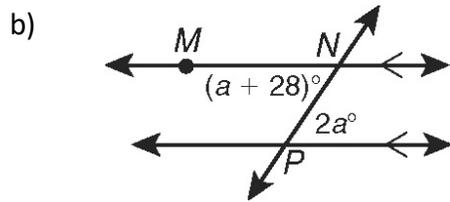
Problem3. In the figure below, lines *p* and *q* are parallel. The measure of ∠3 = 126° .
   What is the measure of all of the angles shown? Show work or explain.

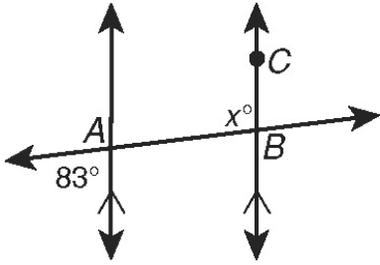Problem 4: Solve for x, then find the measure of the angle.

a)

$(3x + 23)°$
C
$4x°$
B
A

$\angle ABC$ _____

b)

M N
$(a + 28)°$
$2a°$
P

$\angle MNP$ _____

c)

$\angle ABC$ _____