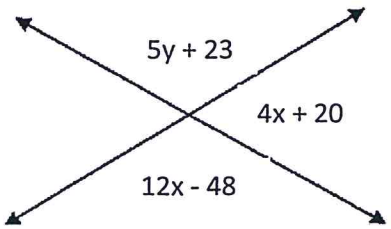
Unit 2 Test (PT) **Name:** _____ **Date:** _____

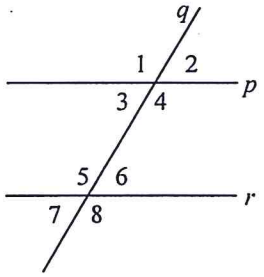
1. Solve for x and y using properties of angles. **Justify every equation that you used.**



2. Write two-column proof for the following.

Given: $p \parallel r$

Prove: < 3 = <7



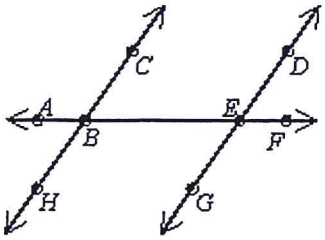
Statement	Reason

3. Construct $\overrightarrow{MN}$ *and* $\overrightarrow{MP}$ so they create a 100° angle. Name the angle in 2 different ways.

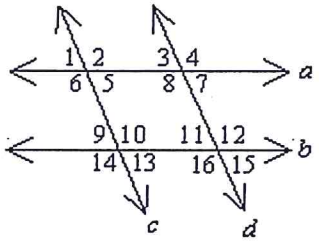
Create $\overrightarrow{MR}$ so that it is opposite *to* $\overrightarrow{MP}$. Classify <RMP.

Multiple-Choice

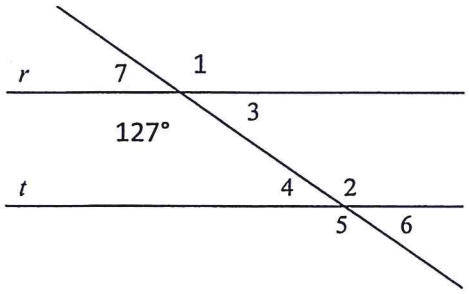
8. Identify 2 Same Side Interior Angles.



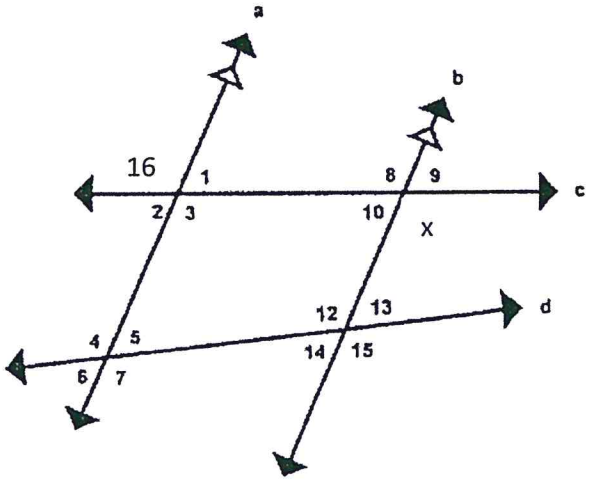
9. Identify 2 sets of Corresponding Angles.



10. Line *r* is parallel to line *t*. Determine the $m\angle 4$ and the correct justification:



11. Lines a, b, c and d are shown below and a // b. Name all angles that are supplementary to <x?



12. The midpoint of segment RQ is (-1, 0), point R is located at (-3, 4) the coordinates of endpoint Q are:

a) (-5, 8)

b) (-4, 1)

c) (1, 2)

d) (1, -4)