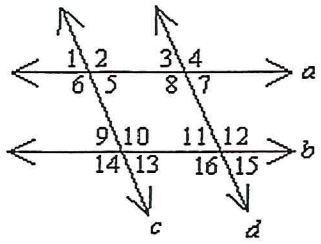
Test Review on Unit 2 **Name:** _____ **Date:** _____

____ 1. Which angles are corresponding angles?



a) < 1 and < 5

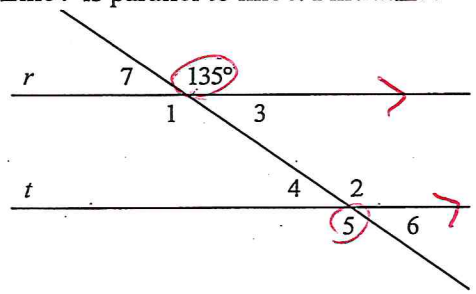
b) < 4 and < 12

____ 2. Complete the statement. If a transversal intersects two parallel lines, then ____ angles are supplementary.

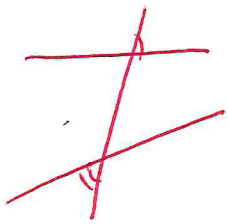
a. corresponding b. same-side interior

exterior

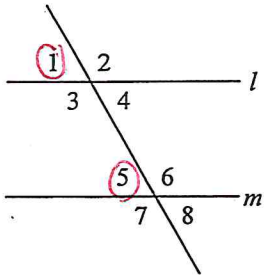
3. Line r is parallel to line t. Find $m\angle 5$.



$m\angle 5 = 135$ If 2 ||, alternate exterior $\angle$s $\cong$



4. Find the value of the variable if $m \parallel l$, $m\angle 1 = 2x + 44$ and $m\angle 5 = 5x + 38$.



$2x + 44 = 5x + 38$

$-2x \quad -2x$

$44 = 3x + 38$

$-38 \quad -38$

$\frac{3x = 6}{3}$

$x = 2$

What if you had to find an $\angle$?

$m\angle 5 = 5(2) + 38$

$10 + 38$

$48°$

$m\angle 6 = 180 - 48 = 132°$