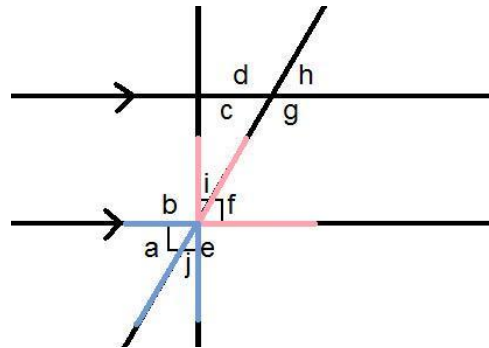
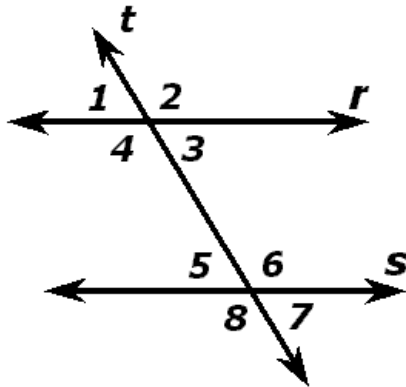


# Harold's Geometry

## "Cheat Sheet"

26 November 2017

### Parallel Lines with Transversals



#### Givens:

- Line  $r$  is parallel to line  $s$ .
- Line  $t$  transverses lines  $r$  and  $s$ .

Rule #	Rule	Angles
1	Corresponding angles are congruent (= alt. int. + vert.)	1&5, 2&6, 4&8, 3&7
2	Vertical angles are congruent	1&3, 2&4, 5&7, 6&8
3	Alternate interior angles are congruent	3&5, 4&6
4	Alternate exterior angles are congruent	1&7, 2&8
5	Supplementary angles add to $180^\circ$	1&2, 2&3, 3&4, 4&1, 5&6, 6&7, 7&8, 8&5
6	Complimentary angles add to $90^\circ$	a&j (blue), i&f (red)