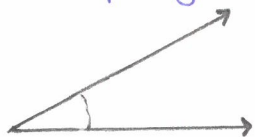
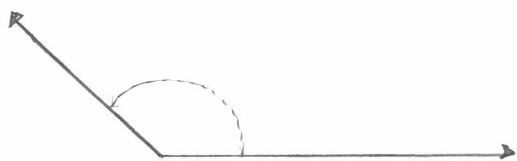


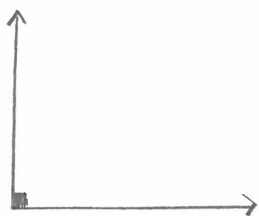
Acute Angle: any angle $< 90^\circ$



Obtuse Angle: any angle $> 90^\circ$ but $< 180^\circ$



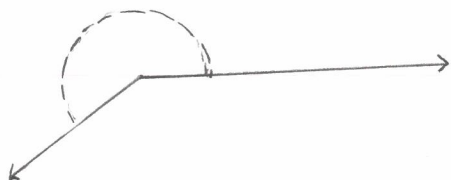
Right Angle: any angle $= 90^\circ$



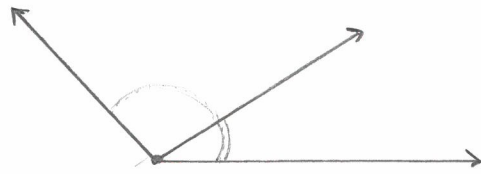
Straight Angle: any angle 180°



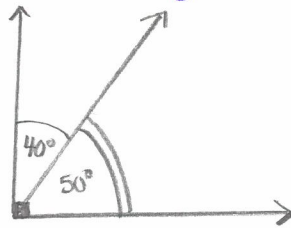
Reflex Angle: any angle $> 180^\circ$ but $< 360^\circ$



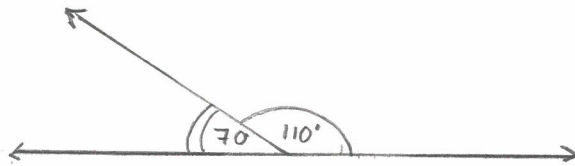
Adjacent Angles: 2 angles that share a common vertex and a common arm.



Complementary Angles: two angles that add up to 90°



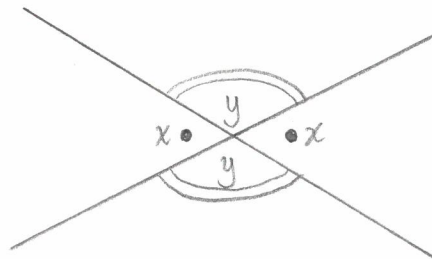
Supplementary Angles: two angles that add up to 180°



Congruent Angles: two angles have the same measurement (equal)
(\cong)



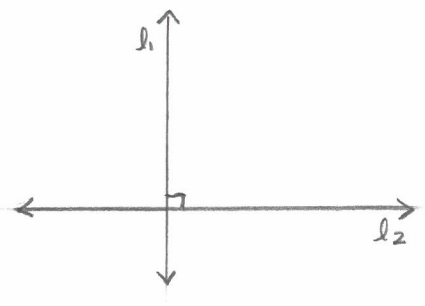
Opposite Angles: angles formed by an intersection of lines



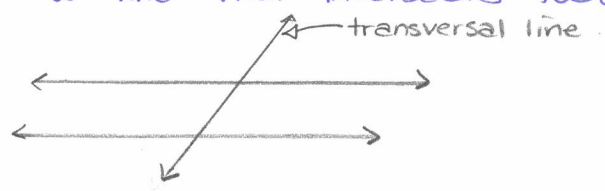
Parallel Lines ($//$) two lines that will never touch - always equidistant apart at all times.



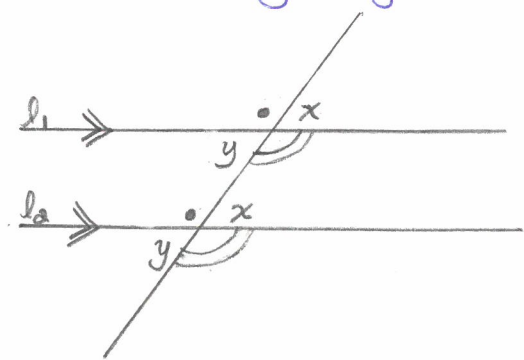
Perpendicular Lines (\perp) two lines that intersect at 90°



Transversal Line: a line that intersects two lines.

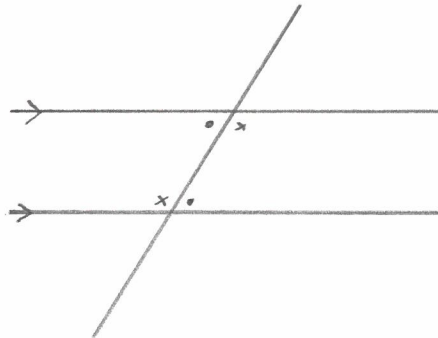


Corresponding Angles: when a transversal line crosses two lines creating congruent angles when l_1 & l_2 are $//$.

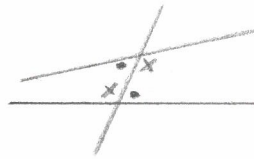


$l_1 // l_2$

Alternate Interior Angles: on opposite sides of a transversal line and on the inside of the lines it intersects

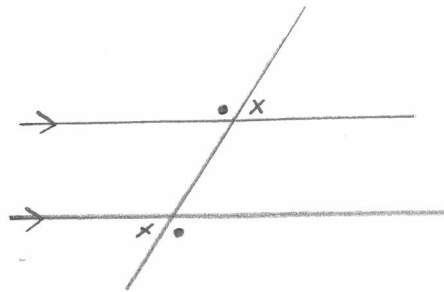


Example 2

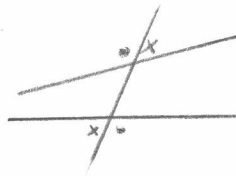


Note: the alternate interior angles would not be the same because l_1 & l_2 are NOT parallel

Alternate Exterior Angles: are on opposite sides of the transversal line and on the outside of the two lines it intersects.

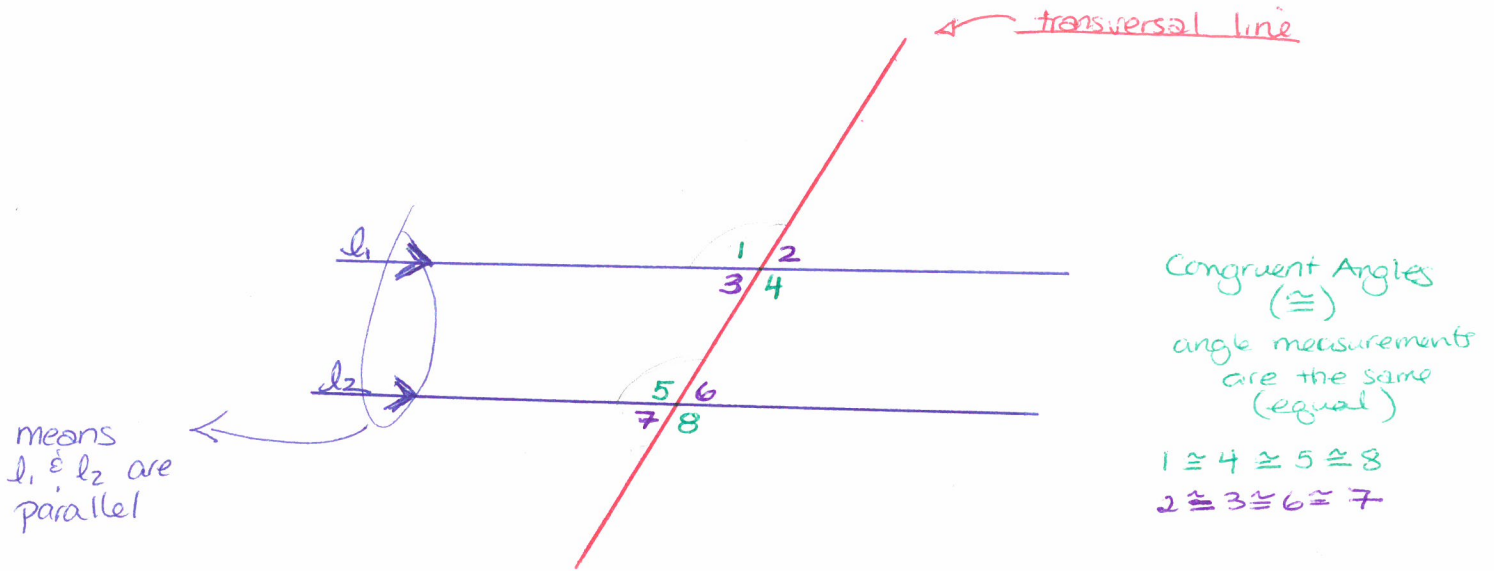


Example 2



Note: the alternate exterior angles will not be congruent because l_1 & l_2 are not parallel (\neq)

Review:



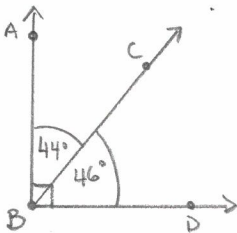
Opposite Angles: (1,4), (2,3), (5,8), (6,7)

Alternate Exterior Angles (1,8), (2,7)

Alternate Interior Angles: (3,6), (4,5)

Corresponding Angles (1,5), (2,6), (3,7), (4,8)

How to name an angle.



You have 3 Angles

- ① $m\angle ABC = 44^\circ$
- ② $m\angle CBD = 46^\circ$
- ③ $m\angle ABD = 90^\circ$

↳ the "m" means the measurement of the angle.

- B is the vertex of $\angle ABC$ and $\angle CBD$
- Because $\angle ABC$ and $\angle CBD$ share a vertex and the arm \overline{BC} they are adjacent angles
- $\angle ABC$ and $\angle BCD$ are complementary angles because $m\angle ABC + m\angle BCD = 90^\circ$