

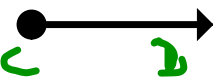
Ch 5


Line Geometry

Basic figures

point 

line segment  \overline{PW} or \overline{WP}

ray  \overrightarrow{CD} or \overleftarrow{DC}

line  \overleftrightarrow{ST} or \overleftrightarrow{TS}

angles  $\angle ABC$, $\angle CBA$ or $\angle B$

B is the vertex

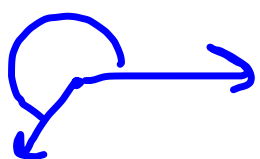
Types of angles

acute  $0^\circ < x < 90^\circ$

right  $x = 90^\circ$

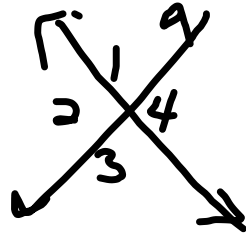
obtuse  $90 < x < 180^\circ$

straight  $x = 180^\circ$

reflex  $x > 180^\circ$

Pairs of angles

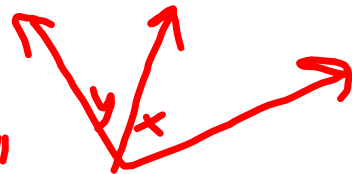
vertical



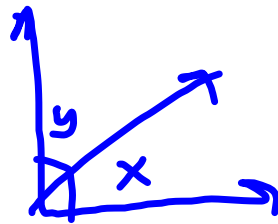
$$\angle 1, \angle 3$$
$$\angle 2, \angle 4$$

adjacent

"next to"

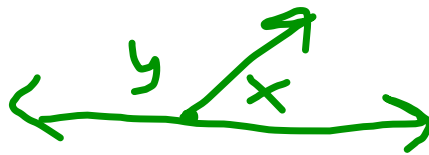


complementary



$$\angle x + \angle y = 90^\circ$$

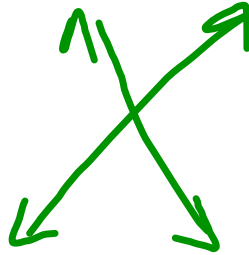
supplementary



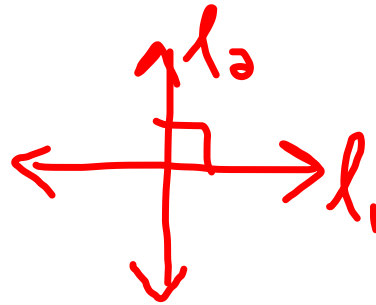
$$\angle x + \angle y = 180^\circ$$

Types of lines

intersecting

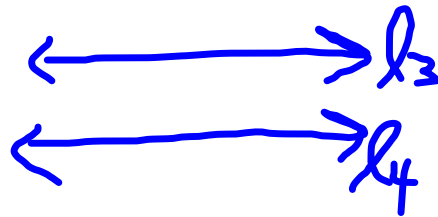


perpendicular



$$l_1 \perp l_2$$

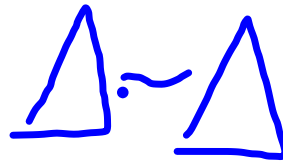
parallel



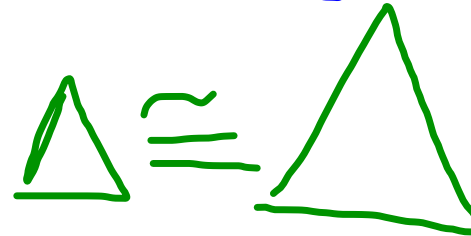
$$l_3 \parallel l_4$$

Symbols

similar



congruent



angle



measure of an angle



parallel



perpendicular

