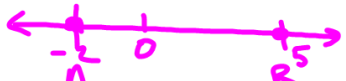
1.2 Segments & Congruence

Distance – The space (units) between points.

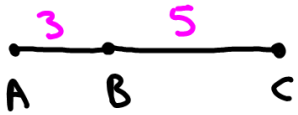


2 units 5 units $2+5=7$

used positive value ....
is actually subtraction

$5 - -2 = 5+2 = 7$

Segment Addition Postulate



If $\overline{AB} = 3$; $\overline{BC} = 5$,

$\overline{AC} = ?$

$\overline{AB} + \overline{BC} = \overline{AC}$

$3 + 5 = 8$

If $\overline{EF} = 6$; $\overline{DF} = 14$,

$\overline{DE} = ?$

$\overline{DE} + \overline{EF} = \overline{DF}$

$a + 6 = 14$

$-6 \quad -6$

$a = 8$

Congruent segments - are = !!!!

A 9 B

C D

Distance

If AB = CD

then CD = 9

(same as AB)

Same distance

Congruence

$\overline{AB} \cong \overline{CD}$

because

AB = CD

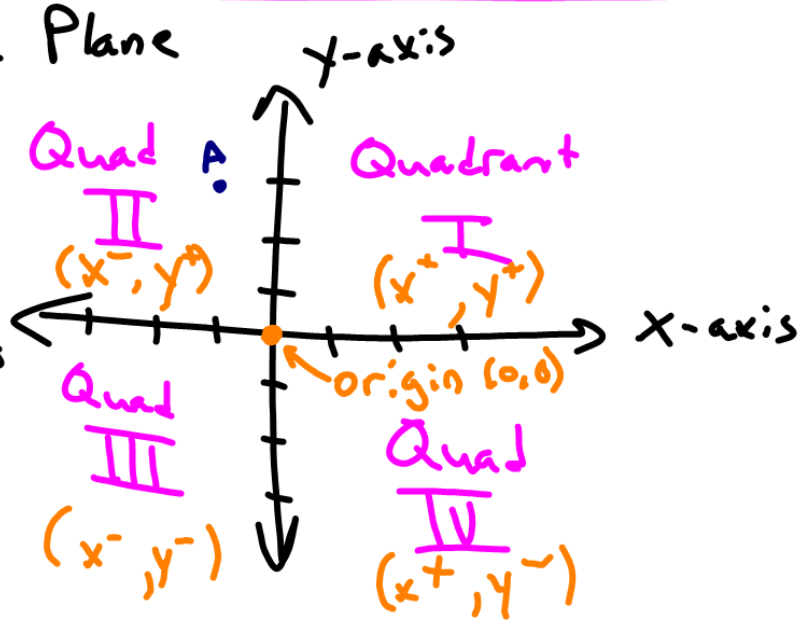
Same length

---

* Cartesian Plane
* Graph thingy
* X-y graph

Coordinate pairs

(x, y)



* plot A(-1, 3)