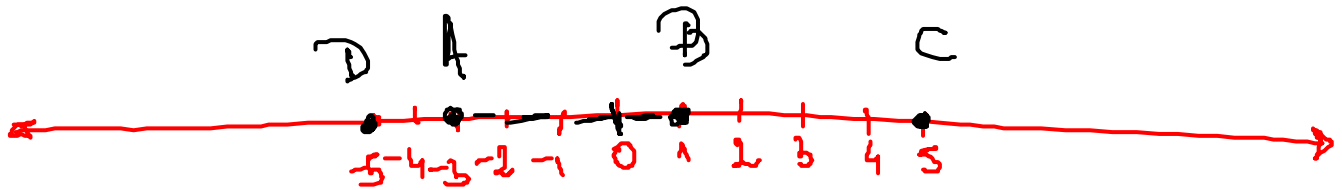
Distancia entre dos puntos

En una dimensión: $A(a)$; $B(b)$ $\quad d(AB) = |b-a| = |a-b|$



$d(AB) = 4$ $\quad A(-3)$ $\quad B(1)$ $\quad d(AB) = |1-(-3)| = 4$

$d(AB) = |-3-1| = 4$

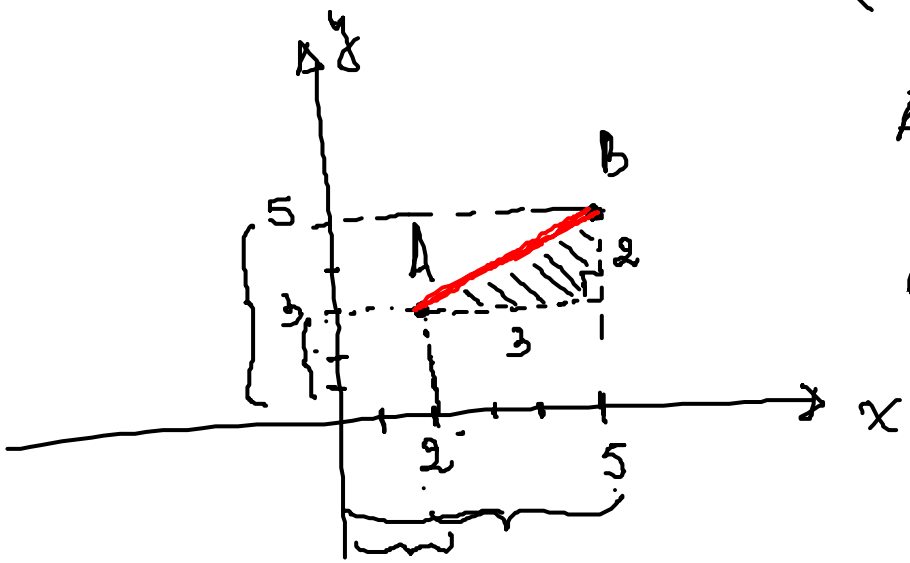
$d(CD) = 10.$ $\quad C(-5)$ $\quad D(5)$

$$d(CD) = |5-(-5)| = |5+5| = 10$$

En dos dimensiones (plano real)

(x_1, y_1) $A(2,3)$

(x_2, y_2) $B(5,5)$



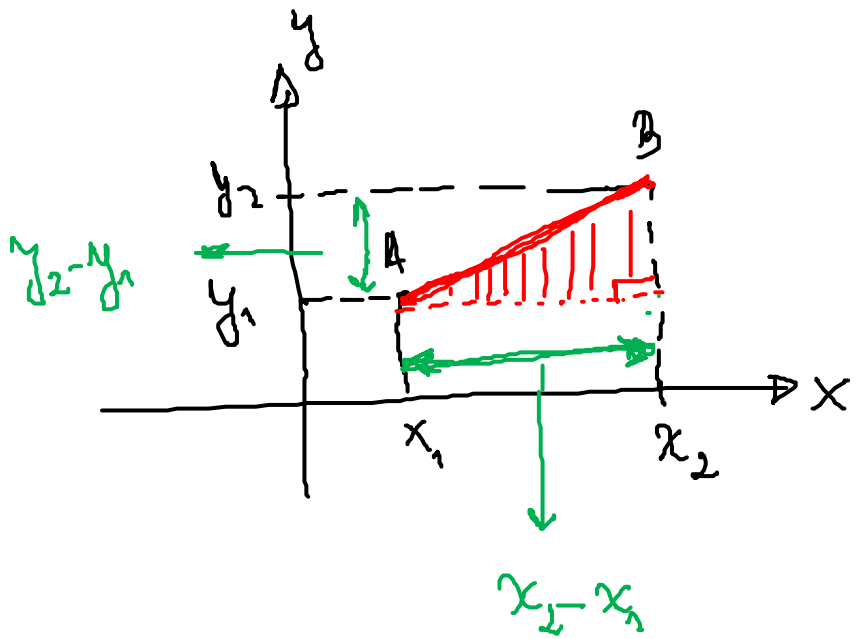
$d(AB)$

$\overline{AB}^2 = 3^2 + 2^2$

$\overline{AB} = \sqrt{9+4} = \sqrt{13}$

$$d(AB) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

$$d(AB) = \sqrt{(5-2)^2 + (5-3)^2} = \sqrt{13}$$



$A(x_1; y_1)$

$B(x_2; y_2)$

$$d(AB) = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$$

$$\overline{AB}^2 = (x_2-x_1)^2 + (y_2-y_1)^2$$

$$\overline{AB} = \sqrt{(x_2-x_1)^2 + (y_2-y_1)^2}$$