

# DISTANZA

# FASCIO

Stessa ascissa

Stessa ordinata

D  
U  
E

PROPRIO

$$\overline{AB} = |y_a - y_b| \quad \overline{AB} = |x_a - x_b|$$

NON //

Generale

P  
U  
N  
T  
I

IMPROPRIO

//

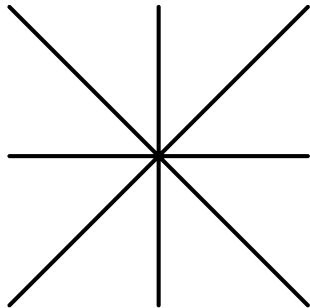
$$\overline{AB} = \sqrt{(x_a - x_b)^2 + (y_a - y_b)^2}$$

$$\overline{AB} = \frac{|ax_0 + by_0 + c|}{\sqrt{a^2 + b^2}}$$

PUNTO  
RETTA

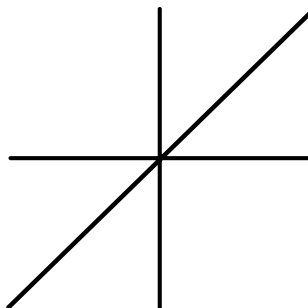
# RETTE PARTICOLARI

Passante per l'  
origine



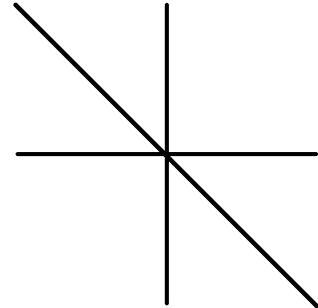
$Q=0$

Bisettrice 1 e 3  
quadrante



$y = x$

Bisettrice 2 e 4  
quadrante



$y = -x$

# RETTE PASSANTI UN PUNTO

# RETTE PASSANTI DUE PUNTI

$$y - y_0 = m(x - x_0)$$

$$\frac{y - y_a}{y_b - y_a} = \frac{x - x_a}{x_b - x_a}$$

INCIDENTI

PARALLELE

$$M_1 \neq M_2$$

$$M_1 = M_2$$

PERPENDICOLARI

$$M_2 = -\frac{1}{M_1}$$

# PUNTO MEDIO

$$M \left( \frac{X_a + X_b}{2}, \frac{Y_a + Y_b}{2} \right)$$