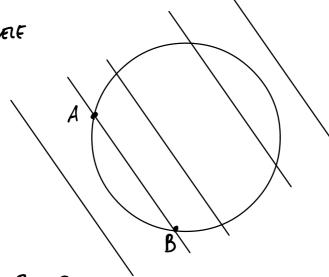
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$$x^{2}+y^{2}-x+y-2=0$$
 $\overrightarrow{AB}=\sqrt{5}$



$$(x^{2}+y^{2}-x+y-z=0)$$

$$x^{2} + (-2x+K)^{2} - x - 2x + K - 2 = 0$$

$$x^{2} + 4x^{2} + K^{2} - 4Kx - 3x + K - 2 = 0$$

$$5x^{2} - (4k+3)x + k^{2} + k - 2 = 0$$

$$X = \frac{4K+3 \pm \sqrt{16K^2 + 9 + 24K - 20K^2 - 20K + 40}}{10}$$

$$= \frac{4K+3 \pm \sqrt{4K-4K^2+49}}{10}$$

$$\Delta = 4K - 4K^2 + 49$$

$$y = -\frac{4K+3 \pm \sqrt{\Delta}}{5} + K$$

$$A\left(\frac{4k+3+\sqrt{\Delta}}{10}, -\frac{4k+3+\sqrt{\Delta}}{5} + K\right) B\left(\frac{4k+3-\sqrt{\Delta}}{10}, -\frac{4k+3-\sqrt{\Delta}}{5} + K\right)$$

$$\mathbb{B}\left(\frac{4k+3-\sqrt{a}}{10},-\frac{4k+3-\sqrt{a}}{5}+k\right)$$

$$A \left(\frac{4k+3+\sqrt{\Delta}}{40}, -\frac{4k+3+\sqrt{\Delta}}{5} + k\right) \quad B \left(\frac{4k+3-\sqrt{\Delta}}{40}, -\frac{4k+3-\sqrt{\Delta}}{5} + k\right)$$

$$\overline{AB}^{2} = 5$$

$$(x_{A} - x_{g})^{2} + (y_{A} - y_{g})^{2} = 5$$

$$\left(\frac{2\sqrt{\Delta}}{105}\right)^{2} + \left(-\frac{2\sqrt{\Delta}}{5}\right)^{2} = 5$$

$$\frac{\Delta}{25} + \frac{4\Delta}{25} = 5$$

$$\Delta = 25$$

$$4k - 4k^{2} + 49 = 25$$

$$4k^{2} - 4k - 24 = 0$$

$$k^{2} - k - 6 = 0$$

$$k = 3$$

$$(k-3)(k+2) = 0$$

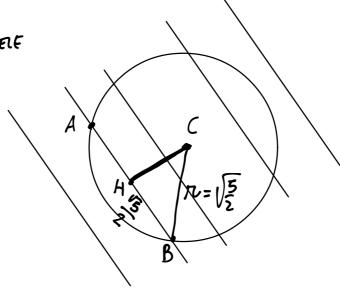
$$k = -2$$

METODO ALTERNATIVO (GHIDOTTI)

$$y = -2x + K$$

$$x^{2}+y^{2}-x+y-2=0$$
 $\overrightarrow{AB}=5$

TASCIO DI RENTE PARAMETE



$$C\left(\frac{1}{2}, -\frac{1}{2}\right)$$
 $\pi = \sqrt{\frac{1}{4} + \frac{1}{4} + 2} = \sqrt{\frac{5}{2}}$

$$\overrightarrow{HC} = \sqrt{\overrightarrow{CB}^2 - \overrightarrow{HB}^2} = \sqrt{\frac{5}{2} - \frac{5}{4}} = \sqrt{\frac{5}{4}} = \sqrt{\frac{5}{4}} = \frac{\sqrt{5}}{2}$$

VADO AUG RICERCA DEUE RETTE DEL FASSIO CUE HAMOS DISTANZA DAL CENTRO PARI A $\frac{\sqrt{5}}{2}$ = FIC

$$y = -2x + K = > 2x + y - K = 0$$

$$\frac{\left|2\cdot\frac{1}{2}+\left(-\frac{1}{2}\right)-K\right|}{\sqrt{2^2+1^2}}=\frac{\sqrt{5}}{2}$$

$$\frac{\left|\frac{1}{2} - K\right|}{\sqrt{5}} = \frac{\sqrt{5}}{2} \qquad \left|\frac{1}{2} - K\right| = \frac{5}{2}$$

$$\frac{1}{2} - K = \frac{5}{2} \qquad \frac{1}{2} - K = -\frac{5}{2}$$

$$K = -2$$