

Scrivi l'equazione della circonferenza γ passante per l'origine O e tangente alla retta di equazione

$$-3x + 2y - 13 = 0$$

nel suo punto di ascissa - 1.

Detti A e B i punti di intersezione di γ con gli assi cartesiani, determina un punto P sulla semicirconferenza che non contiene l'origine in modo che l'area del quadrilatero OAPB sia uguale a 17.

$$\left[x^2 + y^2 - 4x - 6y = 0; P_1(5;1), P_2\left(\frac{17}{13}; \frac{85}{13}\right)\right]$$

b-+19+11b-2b-13=0

But of tangence
$$T(-1,5)$$

$$-3(-1)+2y-13=0$$

$$2y=10\Rightarrow y=5$$

$$x^2+y^2+ax+by+c=0$$

$$O(0,0)\Rightarrow \begin{cases} c=0\\ 1+25-a+5b+c=0 \end{cases} = a=26+5b$$

$$\begin{cases} x^2+y^2+(26+5b)x+by=0\\ -3x+2y-13=0\Rightarrow y=\frac{3}{2}x+\frac{13}{2} \end{cases}$$

$$x^2+\left(\frac{3}{2}x+\frac{13}{2}\right)^2+\left(26+5b\right)x+b-\left(\frac{3}{2}x+\frac{13}{2}\right)=0$$

$$x^2+\frac{9}{4}x^2+\frac{169}{4}+\frac{39}{2}x+\left(26+5b+\frac{3}{2}b\right)x+\frac{13}{2}b=0$$

$$\frac{13}{4}x^2+\left(\frac{39}{2}+26+\frac{13}{2}b\right)x+\frac{13}{2}b+\frac{169}{4}=0$$

$$\frac{1}{4}x^2+\left(\frac{3}{2}+2+\frac{1}{2}b\right)x+\frac{1}{2}b+\frac{13}{4}=0$$

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$$\frac{1}{4}x^2+\frac{7}{4}b-x+\frac{1}{2}b+\frac{1}{2}b+\frac{13}{4}=0$$

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$$L^{2}_{+}43+44h-2h-13=0$$

$$L^{2}_{+}+2h+36=0$$

$$(L_{+}6)^{2}=0$$

$$L_{-}2+4y^{2}+(26+5h)x+L_{-}y=0\Rightarrow x^{2}+y^{2}-4x-6y=0$$

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