PAG. 266 N 182

$$x^{2} + y^{2} - 8x + 109 + 25 = 0$$

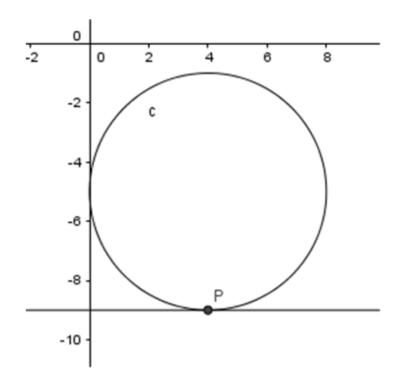
$$\begin{cases} x^{2} + y^{2} - 8x + 10y + 25 = 0 \\ y + 9 = 0 \implies y = -9 \end{cases}$$

$$x^{2}$$

 $+81-8x-90+25=0$
 x^{2}
 $-8x+16=0$

RETA TANGENTE

$$x = \frac{8 \pm 0}{2} = 4$$
 $P(4,-9)$
 $y = -9$



$$\begin{cases} x^{2} + y^{2} - 50 = 0 \\ 3x + 4y + 40 = 0 \implies 4y = -3x - 40 \end{cases}$$

$$y = -\frac{3}{4}x - 10$$

$$x^{2} + \left(-\frac{3}{4}x - 10\right)^{2} - 50 = 0$$

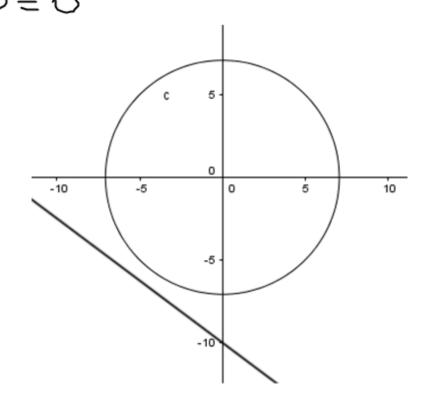
$$x^{2} + \frac{9}{16}x^{2} + 15x + 100 - 50 = 0$$

$$\frac{25}{16}x^{2} + 15x + 50 = 0$$

$$\frac{5}{16}x^{2} + 3x + 10 = 0$$

$$\Delta = 9 - 4\left(\frac{5}{16}\right)10 = 0$$

$$= 9 - \frac{25}{2} = -\frac{7}{2} < 0 \text{ ESTERMA}$$



 $4 = -\frac{3}{4}x - 10$

PAG. 268 N 200 EQ. DEW CIRCONF. DATI 3 PUNTI
(NON ALCINEATI)

$$A(3,4) B(0,-5) C(-2,-1)$$

$$x^{2}+y^{2}+ax+b-y+c=0$$

$$A \Rightarrow \begin{cases} 9+16+3a+4b+c=0 \\ 0+25+0-5b+c=0 \end{cases}$$

$$C \Rightarrow \begin{cases} 4+1-2a-b+c=0 \\ 4+1-2a-b+c=0 \end{cases}$$

$$C \Rightarrow \begin{cases} 3a+4b+5b-25=-25 \\ -2a-b+5b-25=-5 \end{cases}$$

$$C \Rightarrow \begin{cases} 3a+4b-20 \\ -2a+4b-20 \end{cases}$$

$$C \Rightarrow \begin{cases} 3a+4b-20 \\ -2a+4b-20 \end{cases}$$

$$C \Rightarrow \begin{cases} 3a+4b-20 \\ -2a-b+c=-10 \end{cases}$$

$$\begin{cases} Q = -6 \\ C = 10 - 25 = -15 \\ V = 2 \end{cases}$$

$$C = 10 - 25 = -15$$
 $X^{2} + y^{2} - 6x + 2y - 15 = 0$