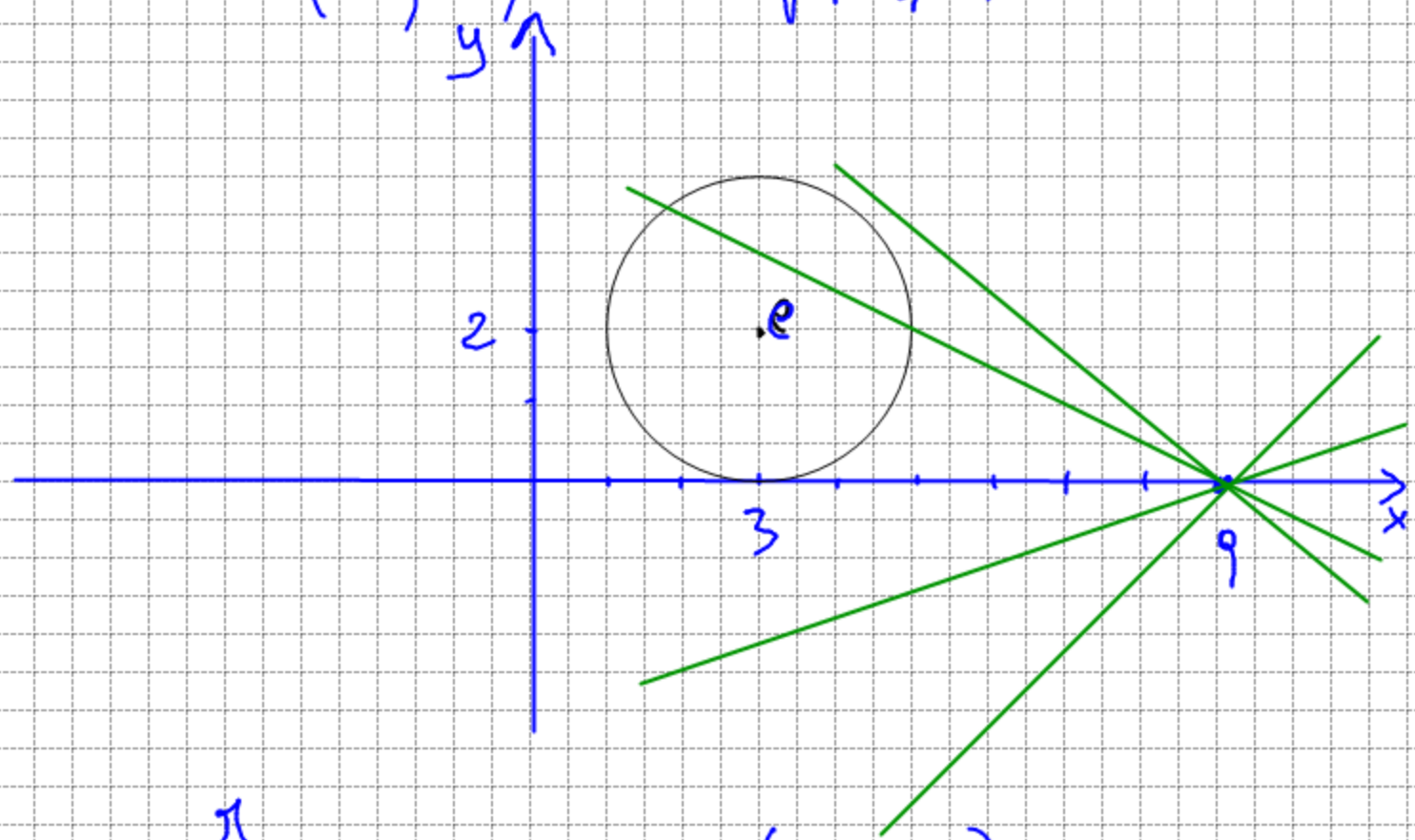
N141 PAG 274

rette tg $x^2+y^2-6x-4y+9=0$ condotte da $P(9;0)$

$C(3;2)$ $\quad r=\sqrt{9+4-9}=2$



$y_p: \; y-y_p=m(x-x_p)$

$y-0=m(x-9)$

$y_p: \; y=mx-9m$

$$\begin{cases} y=mx-9m \\ x^2+y^2-6x-4y+9=0 \end{cases} \qquad \begin{cases} y=mx-9m \\ x^2+m^2x^2+81m^2-18m^2x \\ -6x-4mx+36m \\ +9=0 \end{cases}$$

$$\begin{cases} y=mx-9m \\ (1+m^2)x^2+(-6-18m^2-4m)x+81m^2+36m+9=0 \end{cases}$$

$\Downarrow$

$\Delta=0$

$$(-3-9m^2-2m)^2-(1+m^2)(81m^2+36m+9)=0$$

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