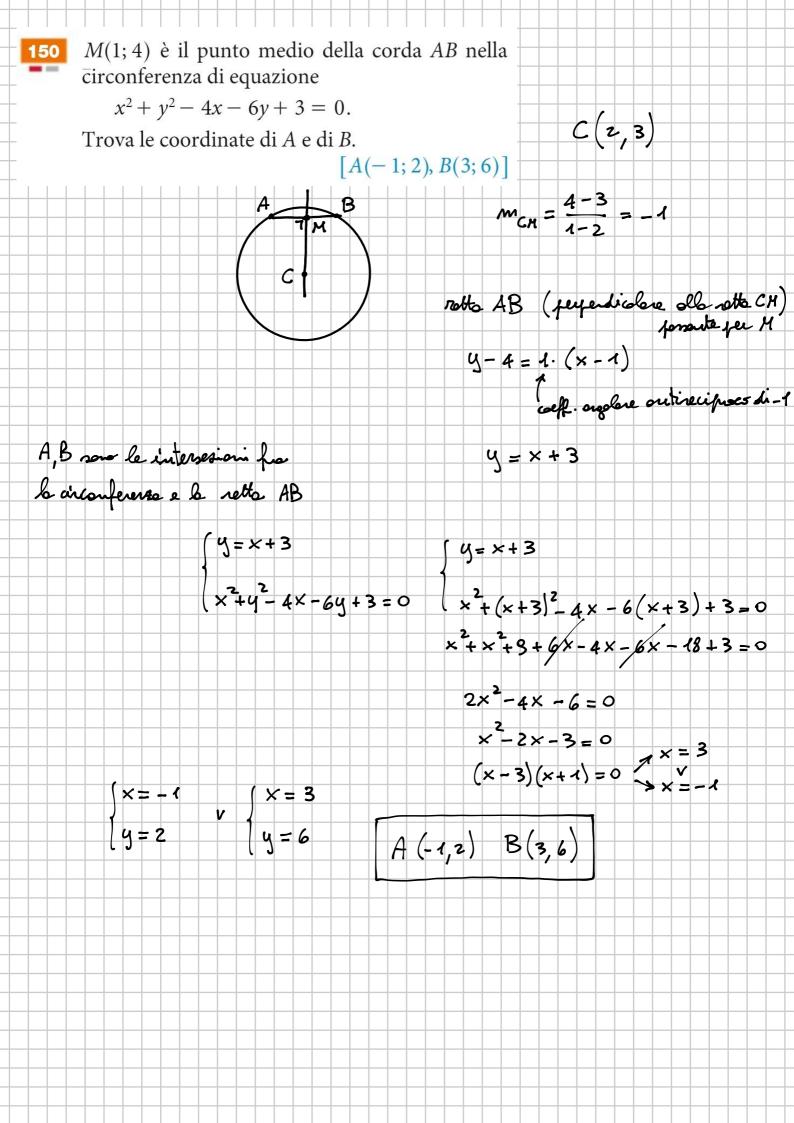
DISEGNARE 97 $y = 1 + \sqrt{|x| - x^2}$ $9-1=\sqrt{1\times1-\times^2}$ 4-120 => 421 [x|= | x ne x >0 [x|= | -x ne x <0 $\times \langle 0 = \rangle \quad \forall -1 = \sqrt{-x - x^2} \quad \boxed{1}$ $\times \geqslant 0 \implies y - 1 = \sqrt{x - x^2} \quad \boxed{2}$ $\boxed{1} \quad \forall -1 = \sqrt{-\times -\times^2}$ 421 $9^{2}+1-29=-x-x^{2}$ $x^{2}+y^{2}+x-2y+1=0$ $C_4(\frac{1}{2}, 1)$ $N_4 = \sqrt{\frac{1}{4} + 1 - 1} = \frac{1}{2}$ $2 \quad y - 1 = \sqrt{x - x^2}$ 421 $y^{2}+1-2y=x-x^{2}$ $x^{2}+y^{2}-x-2y+1=0$ $C_2\left(\frac{1}{2},1\right)$ $R_2 = \sqrt{\frac{1}{4}+1-1} = \frac{1}{2}$



Determina l'equazione della circonferenza di centro C(-3;0) e raggio 5 e scrivi le equazioni delle rette tan- \bar{g} enti condotte dal punto P(7; 5). $[x^2 + y^2 + 6x - 16 = 0; y = 5; 4x - 3y - 13 = 0]$

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

$$x^{2} + 9 + 6x + y^{2} - 25 = 0$$

$$x^{2} + y^{2} + 6x - 16 = 0$$

y-5=m(x-7)

$$\frac{1}{1} \times ^{2} + 4^{2} + 6 \times - 16 = 0$$

$$\times^{2} + m^{2} \times^{2} + 49m^{2} + 25 - 14m^{2} \times + 10m \times - 70m + 6 \times - 16 = 0$$

$$(1+m^2) \times^2 - 2(7m^2 - 5m - 3) \times + 49m^2 - 70m + 9 = 0$$

$$\frac{\Delta}{4} = 0 \Rightarrow (7m^2 - 5m - 3)^2 - (1+m^2)(49m^2 - 70m + 9) = 0$$

$$-9m^2=0$$

$$-75 m^2 + 100 m = 0$$

$$3m^{2}-4m=0$$
 $m(3m-4)=0$ $m=\frac{4}{3}$

4=5 y=mx-7m+5

$$y = \frac{4}{3} \times -7.\frac{4}{3} + 5 = \frac{4}{3} \times -\frac{13}{3}$$
 $y = \frac{4}{3} \times -\frac{13}{3}$

$$y = \frac{4}{3} \times -\frac{13}{3}$$

