EX N 43 PAG 365

$C = ?$ $r = ?$ passa per $O(0;0)$

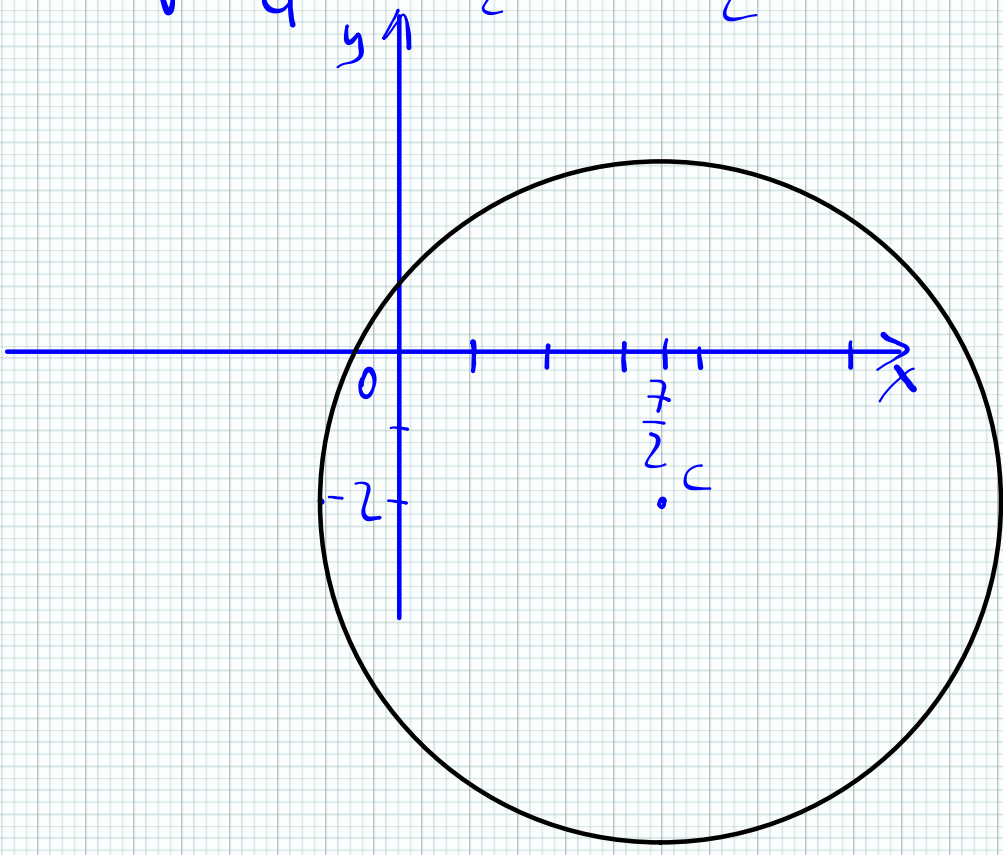
$x^2 + y^2 - 7x + 4y - 4 = 0$

$C\left(-\frac{a}{2}; -\frac{b}{2}\right)$ $a = -7$, $b = 4$, $c = -4$

$C\left(\frac{7}{2}; -2\right)$

$r = \sqrt{\left(-\frac{a}{2}\right)^2 + \left(-\frac{b}{2}\right)^2 - c} = \sqrt{\frac{49}{4} + 4 + 4}$

$= \sqrt{\frac{81}{4}} = \frac{9}{2}$ $r = \frac{9}{2}$



N. 47

$A(5;-3)$ $B(1;-2)$ $C(-1;1)$

$x^2+y^2-4x+6y+4=0$ $C_C(2;-3)$

$r=\sqrt{(2)^2+(-3)^2-4}=$

$=\sqrt{4+9-4}=3$

$r=3$

$d(AC_C)=\sqrt{(2-5)^2+(-3+3)^2}=3$

A $\in$ circonferenza

$d(C_C;B)=\sqrt{(2-1)^2+(-3+2)^2}=$

$=\sqrt{2}$

B è dentro.

$d(C_C;C)=\sqrt{(2+1)^2+(-3-1)^2}=$

$=5$

C è fuori.