

MTM3111 e MTM5512 - Geometria Analítica

Gabarito da Lista de exercícios 5.1

Circunferência

Última atualização: 2 de maio de 2021

1.

(a)  $(x - 2)^2 + (y - 3)^2 = 4$ .

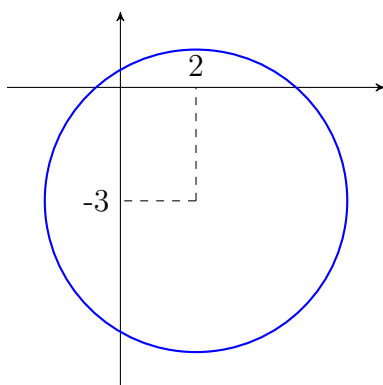
(b)  $(x + 1)^2 + (y - 2)^2 = 17$ .

(c)  $(x - 2)^2 + (y - 4)^2 = 4$ .

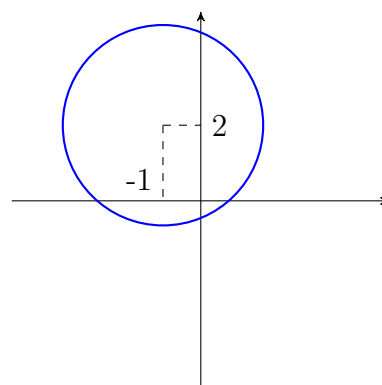
(d)  $(x - 1)^2 + (y - 1)^2 = 10$ .

2.

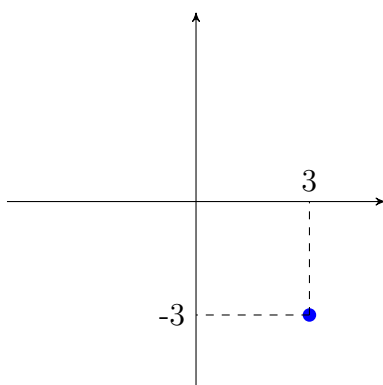
(a)  $(x - 2)^2 + (y + 3)^2 = 4^2$ .



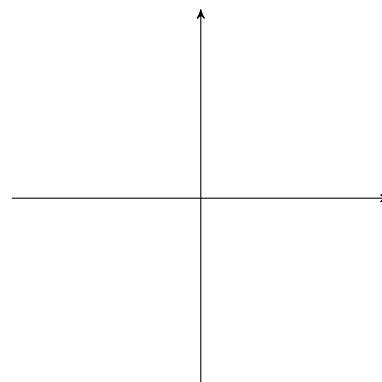
(b)  $(x + 1)^2 + (y - 2)^2 = (\sqrt{7})^2$ .



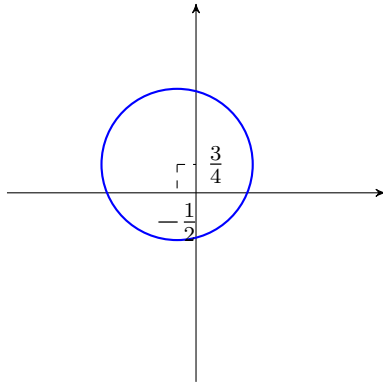
(c)  $(x - 3)^2 + (y + 3)^2 = 0$ .  
O gráfico é um único ponto.



(d)  $x^2 + (y - 2)^2 = -3$ .  
O gráfico é o conjunto vazio.



**(e)**  $\left(x + \frac{1}{2}\right)^2 + \left(y - \frac{3}{4}\right)^2 = 2^2.$



**3.**  $m = -3.$

**4.**  $m = -4, n = -6$  e  $p = -3.$