



Soluções da Ficha de Trabalho

1. 1.1. $(x + 1)^2 + (y - 5)^2 = 4$

1.2. $(x + 2)^2 + y^2 = 5$

2. 2.1. $C(0; 1)$ e $r = \sqrt{5}$

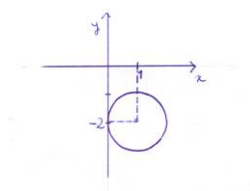
2.2. $C(4; -2)$ e $r = 3$

2.3. $C(\frac{3}{2}; -2)$ e $r = \frac{\sqrt{29}}{2}$

2.4. $C(-6; 10)$ e $r = 6$

2.5. $C(-5; 3)$ e $r = \sqrt{33}$

3. 3.1. $C(1; -2)$ e $r = 1$



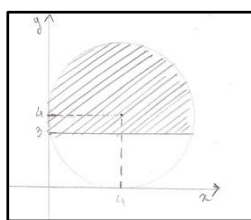
3.2. O ponto A pertence ao exterior do círculo limitado pela circunferência. O ponto B pertence ao exterior do círculo limitado pela circunferência. O ponto C pertence à circunferência.

4. 4.1. $r=2$

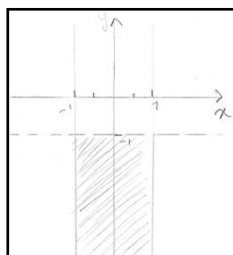
4.2. $y = x - 5$

4.3. O ponto C pertence à mediatriz

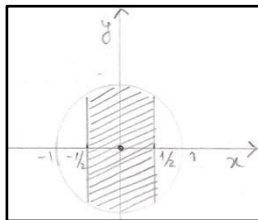
5.1.



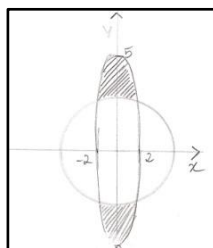
5.4.



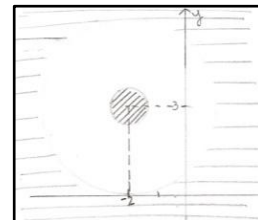
5.2.



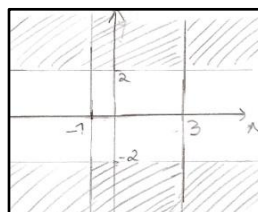
5.5.



5.3.

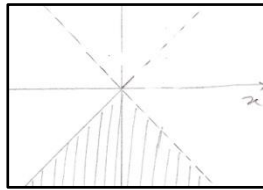


5.6.





5.7.



6. 6.1. $x^2 + y^2 \leq 2^2 \wedge (|y| \geq 1)$

6.2. $x^2 + y^2 \leq 4^2 \wedge (x \leq y \leq 0)$

6.3. $[x \geq 0 \wedge 4 \leq x^2 + y^2 \leq 9] \vee [x^2 + y^2 \leq 4 \wedge x \leq 0]$

7. 7.1. $z = 2$

7.2. $y = 1$; B não pertence à mediatriz de [AC].

7.3. $(x - \frac{3}{2})^2 + (y + 1)^2 + (z - 2)^2 \leq (\frac{3\sqrt{5}}{2})^2$

7.4. $A'(-3; 2; -2)$

7.5. Não é isósceles.

8. 8.1. Circunferência de centro $(0; 1; -3)$ e raio 2;

8.2. Semi-esfera inferior de centro $(0; 0; 0)$ e raio 3.