FICHA DE TRABALHO 7 **Geometria analítica**

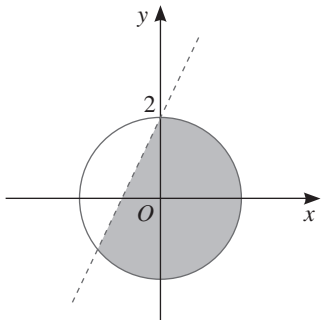
1 **a)** $y = 5x + 1$; **b)** $y = -2x + 7$; **c)** $y = -7x - 4$; **d)** $y = 1$; **e)** $y = -x$; **f)** $y = -\frac{7}{2}x + 1$

2 **2.1** $t: y = 2$; $s: y = \frac{3}{2}x$; $r: y = -2x + 1$

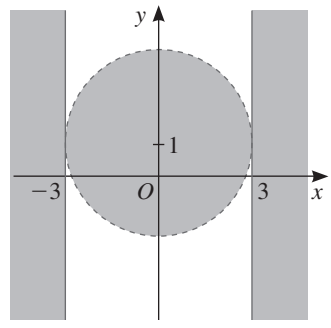
2.2 **a)** $A\left(\frac{2}{7}, \frac{3}{7}\right)$

b) $A = \frac{121}{84}$ m^2

3 **a)**



b)



4 **4.1** $(x + 3)^2 + (y - 2)^2 = 8$

4.2 $y = \frac{3}{4}x + 6$ e $y = \frac{3}{4}x + 3$

4.3 $(x + 3)^2 + (y - 2)^2 \geqslant 8 \wedge y \geqslant \frac{3}{4}x + 3 \wedge y \leqslant \frac{3}{4}x + 6$