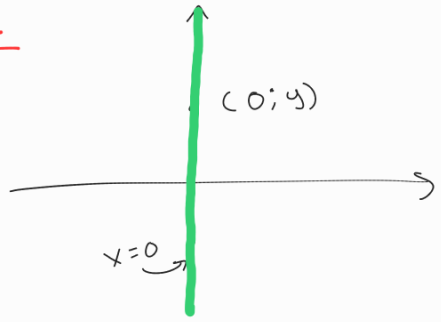
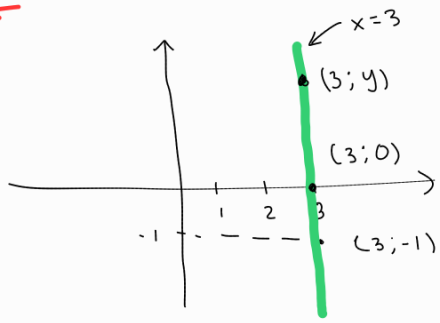
#4.2

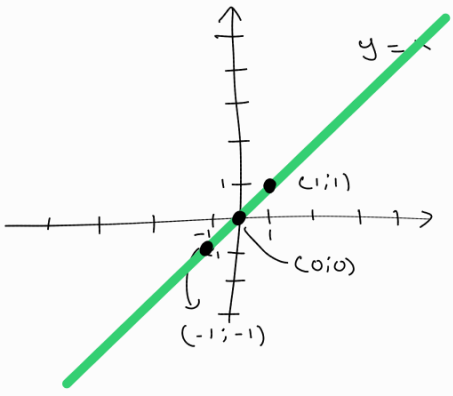


#4.3

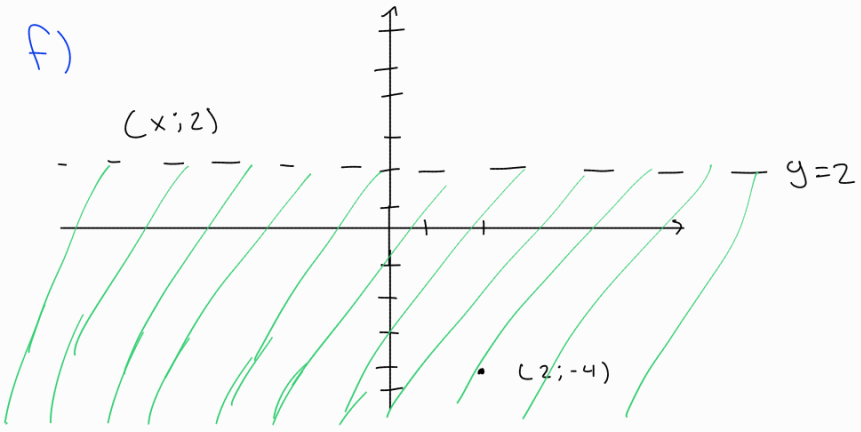


#4.4

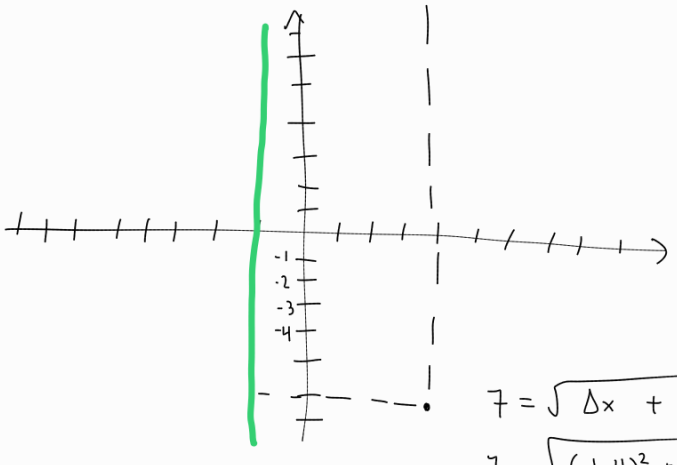
d)

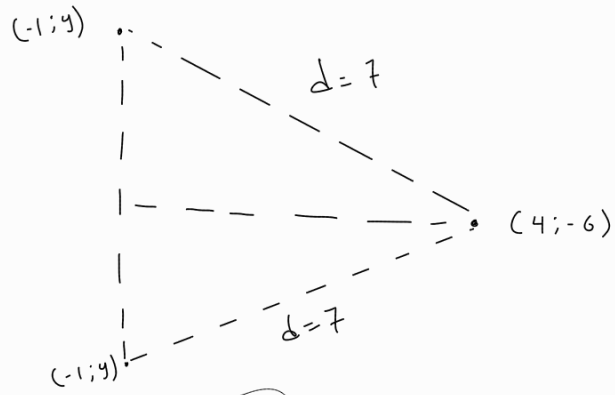


f)



Exercice 4.13





$7 = \sqrt{\Delta x + \Delta y}$

$7 = \sqrt{(-1-4)^2 + (y-(-6))^2}$

$7^2 = \sqrt{25 + (y+6)^2}^2$

$49 = 25 + (y+6)^2$

$-25 \quad -25$

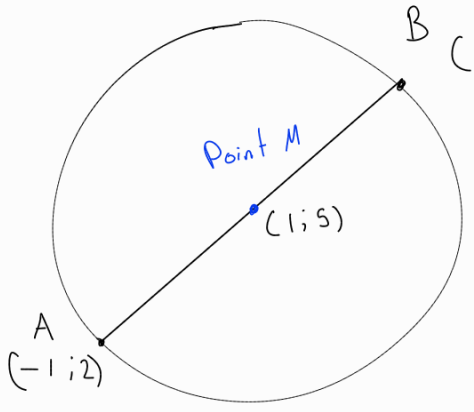
$\sqrt{24} = \sqrt{(y+6)^2}$

$\sqrt{24} = y+6$

$-6 \quad -6$

$-6 \pm 2\cdot\sqrt{6} = y$

#4.12 P.160



$$M = \left(\frac{-1+3}{2}\,;\,\frac{2+8}{2}\right)$$

$$M = (1\,;\,5)$$

$$\sqrt{(x-x_c)^2+(y-y_c)^2} = R =$$

#4.16 P.167

i) $x^2 + 8x + y^2 + 10y + 15 = 0$

$$\Downarrow$$

$$(x^2 + 8x) + (y^2 + 10y) = -15$$

$$\left(\frac{8}{2}\right)^2 \qquad \left(\frac{10}{2}\right)^2$$

$$\Downarrow$$

$$(x^2 + 8x + 16 - 16) + (y^2 + 10y + 25 - 25) = -15$$

$+16$ $\qquad$ $+25$

$$\Downarrow$$

$$(x^2 + 8x + 16) + (y^2 + 10y + 25) = -15 + 16 + 25$$

$$(x+4)^2 + (y+5)^2 = 26$$

$$(x-(-4))^2 + (y-(-5))^2 = (\sqrt{26})^2$$

h $\qquad$ k