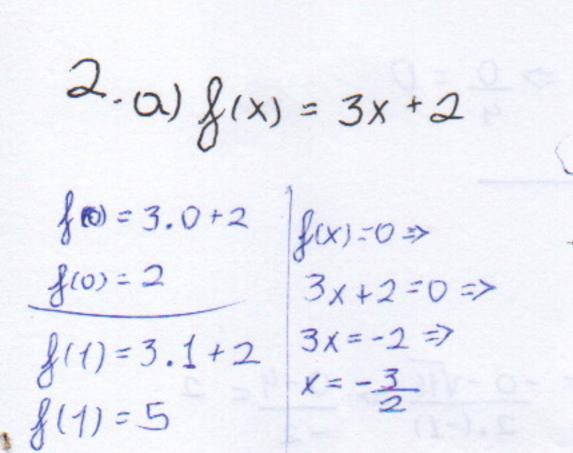
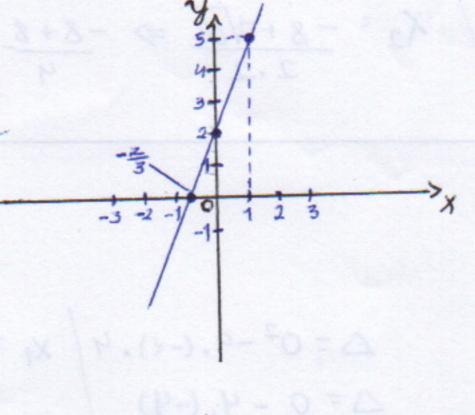
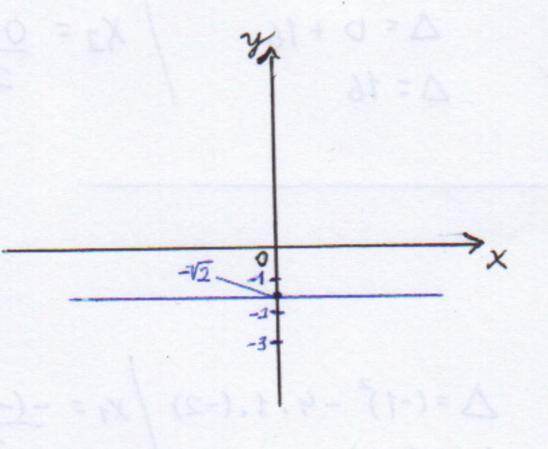
1 a) 
$$f(x) = 3x + 2 \Rightarrow \text{Crescente}, \text{ pois } a > 0$$
  
b)  $g(x) = -\sqrt{2} \Rightarrow \text{Constante}, \text{ pois } a = 0$   
c)  $h(x) = 2x - x + 2 \Rightarrow \text{ decrescente}, \text{ pois } a < 0$ 





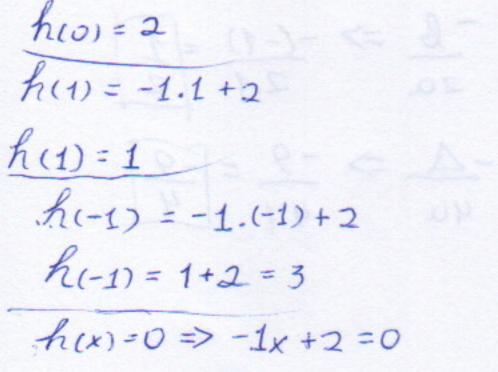
83. a) y=2x 18x.

$$b)g(x) = -\sqrt{2}$$
  
 $a = 0, b = -\sqrt{2}$ 

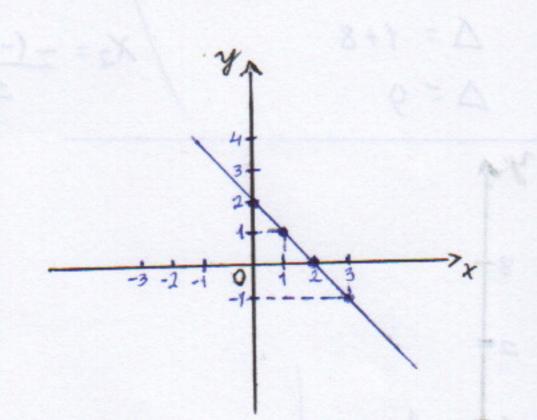


C) 
$$h(x) = -x + 2$$

$$a = -1$$
,  $b = 2$   
 $h(0) = -1.0 + 2$   
 $h(0) = 2$   
 $h(1) = -1.1 + 2$ 



 $-1x = -2 \Rightarrow x = 2$ 



$$43.a)y=2x^2+8x$$
 $10=2, b=8, c=0)$ 

$$X_1 = -4$$

$$X_2 = 0$$

$$A = b^2 - 4ac$$

$$X = -b \pm \sqrt{\Delta}$$

$$2a$$

$$\Delta = 8^{2} - 4.2.0 / X_{1} = \frac{-8 - \sqrt{64}}{2.2} \Rightarrow \frac{-8 - 8}{4} = \frac{-16}{4} = -4$$

$$\Delta = 64 - 0 / X_{2} = \frac{-8 + \sqrt{64}}{2.2} \Rightarrow \frac{-8 + 8}{4} \Rightarrow 0 = 0$$

$$2.2 - 8 + \sqrt{64} \Rightarrow -8 + 8 \Rightarrow 0 = 0$$

N SIPPLE

$$(b)$$
  $y=-x^2+4$   
 $(a=-1)$ ,  $b=0$ ,  $c=4$ 

$$\Delta = 0^{2} - 4.(-1).4 | X_{1} = \frac{-0 - \sqrt{16}}{2.(-1)} \Rightarrow \frac{0 - 4}{-2} = 2$$

$$\Delta = 0 - 4.(-4) | X_{2} = \frac{0 + \sqrt{16}}{2.(-1)} \Rightarrow \frac{0 + 4}{-2} = -2$$

$$\Delta = 16 | X_{2} = \frac{0 + \sqrt{16}}{2.(-1)} \Rightarrow \frac{0 + 4}{-2} = -2$$

C) 
$$y=x^2-x-2$$
  
(a=1, b=-1, c=-2)

$$X_1 = -1$$

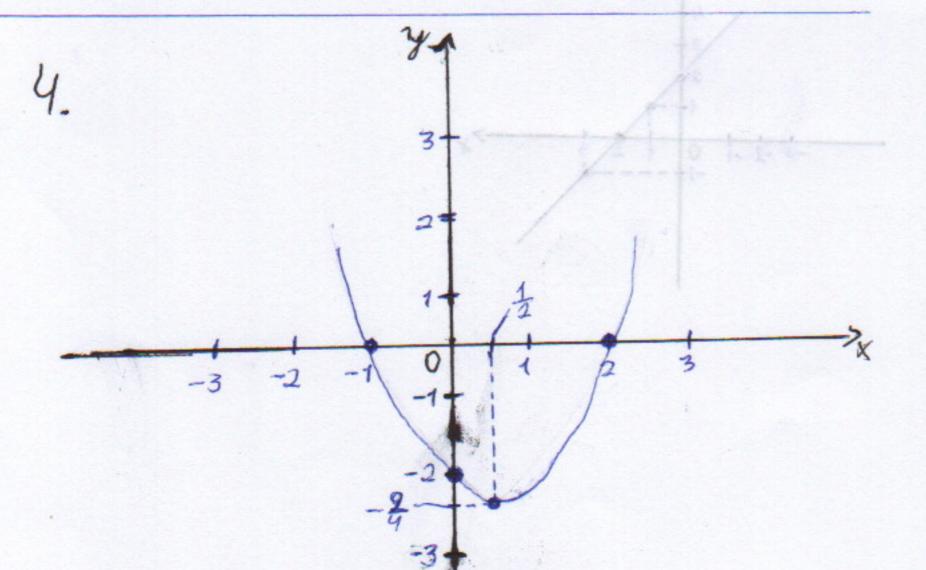
$$X_2 = 2$$

$$\Delta = (-1)^{2} - 4.1.(-2) | X_{1} = -(-1) - \sqrt{9} \Rightarrow 1 - 3 \Rightarrow -2 = -1$$

$$\Delta = 1 - 4.(-2) | X_{2} = -(-1) + \sqrt{9} \Rightarrow 1 + 3 \Rightarrow 4 = 2$$

$$\Delta = 9 | X_{2} = -(-1) + \sqrt{9} \Rightarrow 1 + 3 \Rightarrow 4 = 2$$

$$\Delta = 9$$



$$\frac{-b}{2a} \Rightarrow -\frac{(-1)}{2.1} = \begin{vmatrix} 1 \\ 2 \end{vmatrix}$$

$$-\frac{\Delta}{4a} \Rightarrow -\frac{9}{4.1} = \begin{vmatrix} -9 \\ 4 \end{vmatrix}$$