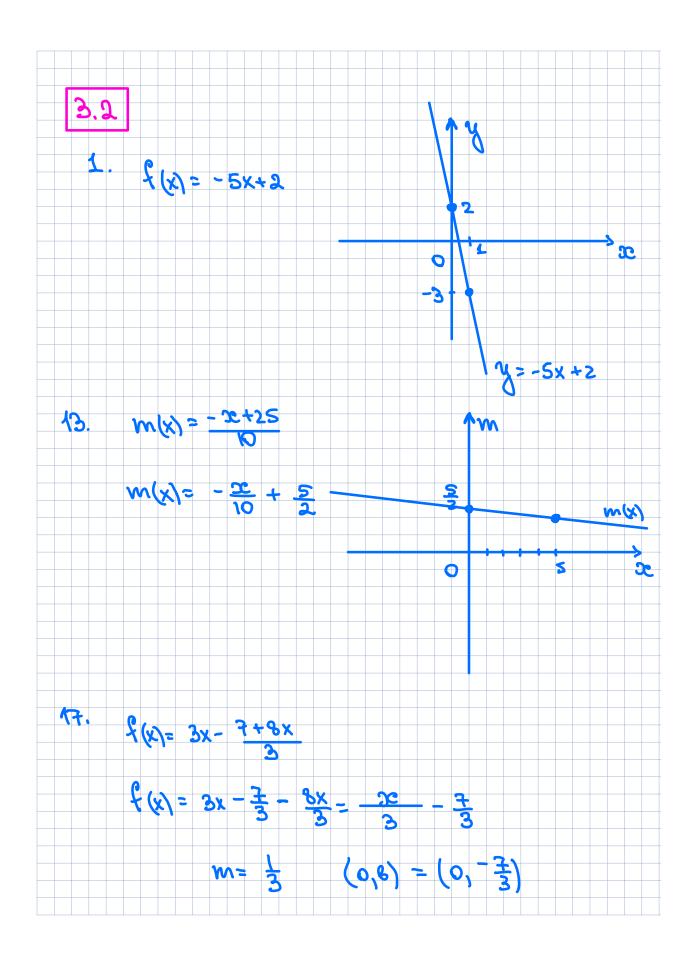
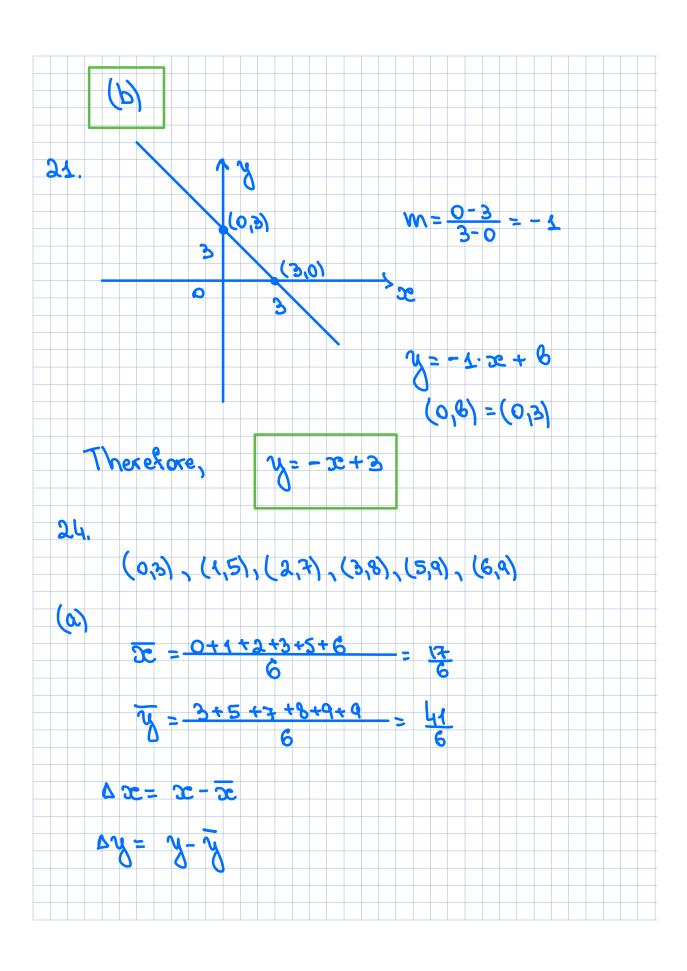


65.
$$f(x) = \sqrt{1-x^2-3}$$

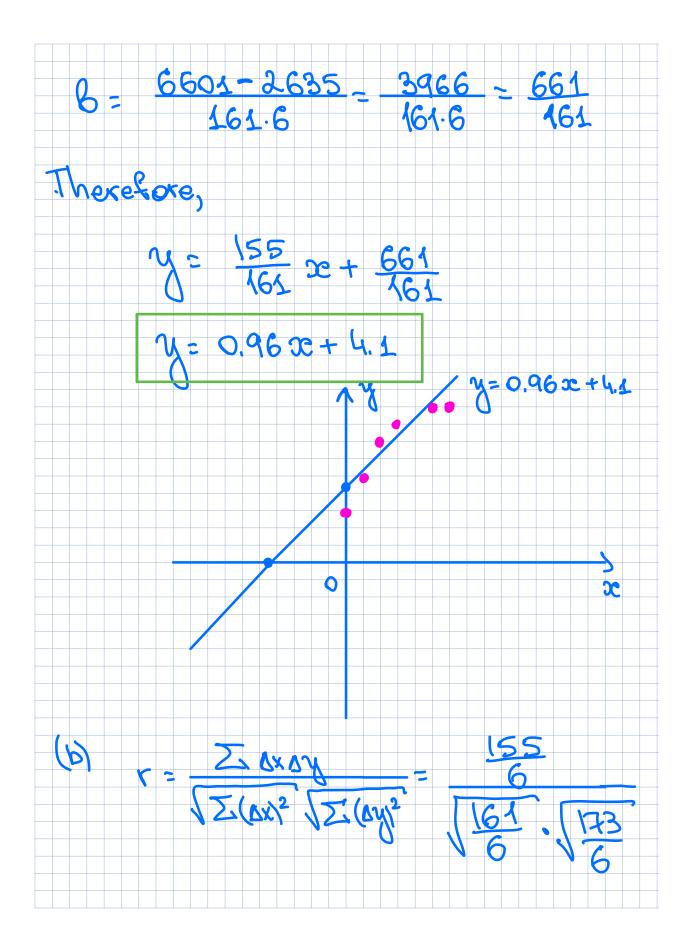
(a) $f(2) = \sqrt{1-2^2-3} = \sqrt{1-3} = \sqrt{1-3}$
(b) $f(x-1) = \sqrt{1-(x-1)^2-3} = \sqrt{1-x+1^2-3} = \sqrt{1-x+1-3} = \sqrt{1-x+1^2-3} = \sqrt{1-x+1-3} = \sqrt{1-x$

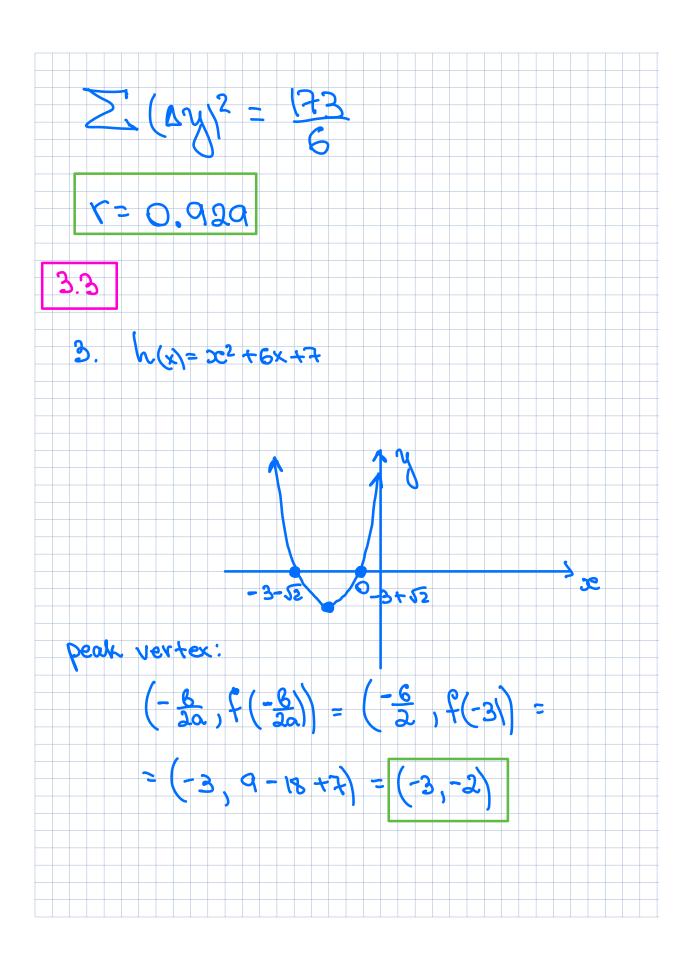
	(3) = (2) $(3) = (2)$ $(3) = (2)$	
83. $f(x) = \sqrt{2}$ $2e - 1$ $x \ge 2$	1	
Dom(\$) = 88. h(x) =	[1,0)	
Domain of	$h(x)$ is all real values at which $x^2 - 6x + 9 = 0$. We set	numbers except
Dom(h) =	$(x-3)(x-3) \neq 0$ $(x-3)(x-3) \neq 0$ $(x-3)(x-3) = 0$	





Nx.	Δγ	$(\Delta X)^2$	LAYP	<u>LXAY</u>
- <u>17</u> 6	23 6 16 16 16 76	289	579	
	6	10000 10000	524 36 [2] 36	391 36
16 16	-6	36	<u>[2]</u> 36	121
-5	7	32		5
	2		36	36
6	6	36	36 43 43 63 63 63 63 63 63 63 63 63 63 63 63 63	36
6	13	(69	169	169
6	13	36 (69 36	36	121 36 55 36 74 36 936
19	13	36L 36	169	247
6	6	36	36	36
W =	$\frac{1}{2}(\Delta x)^2$	0 - 155		
2 DXAU	3	0 - 155		
Z (4x)2	<u> </u>	6		
m = 1	55 · 6	161		
b = \(\bar{y} -	- w. z	= 41	(55 <u>17</u>	-





$$D = 36 + 38 = 8$$

$$x_1 = -\frac{6+2\pi}{2} = -3 + \sqrt{2} \qquad (-3+\sqrt{2},0)$$

$$x_2 = -\frac{6-2\pi}{2} = -3 - \sqrt{2} \qquad (-3-\sqrt{2},0)$$

$$x - intercept$$

$$18. \quad f(x) = \frac{x^2-8x+16}{2} = \frac{1}{2}x^2-4x+8$$

$$D = (6-4\cdot\frac{1}{2}\cdot8 = 16-16=0)$$

$$x_{1,2} = \frac{4+0}{2} = 4$$

$$(a) \quad y = 0.x^2+6x+C$$

$$x - intercept: (-2,0) and (1,0)$$

$$y = 0.(x+2)(x-1)$$

Hence,

A:
$$1=-2\alpha=1$$
 $\alpha=-\frac{1}{2}$

Therefore, $y=-\frac{1}{2}(x+2)(x-1)$
 $y=-\frac{1}{2}x^2-\frac{1}{2}x+1$

peak vertex: $\left(-\frac{1}{2}a\right)^2-\frac{1}{2}$
 $\left(-\frac{1}{2}a\right)^2=\frac{1}{2}$

Hence, we get $\left(-\frac{1}{2}a\right)^2=\frac{1}{2}$