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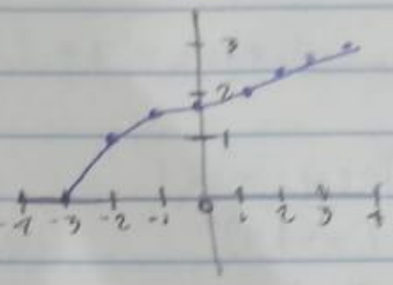
Semestre 4to de preparatoria

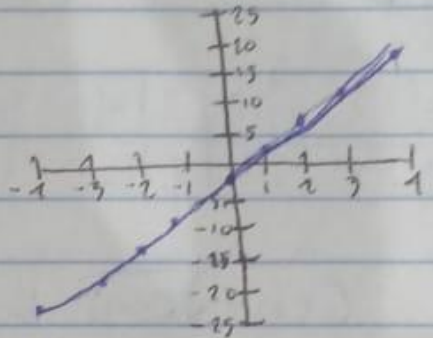
A) $Y = \sqrt{(x+3)}$

x	-4	-3	-2	-1	0	1	2	3	4
y	0	0	1	1.4	1.7	2	2.2	2.4	2.6



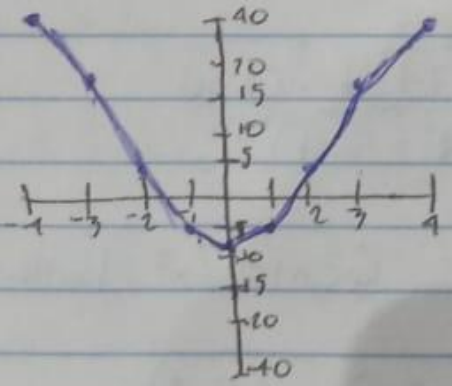
B) $Y = 5x - 3$

x	-4	-3	-2	-1	0	1	2	3	4
y	-23	-18	-13	-8	-3	2	7	12	17



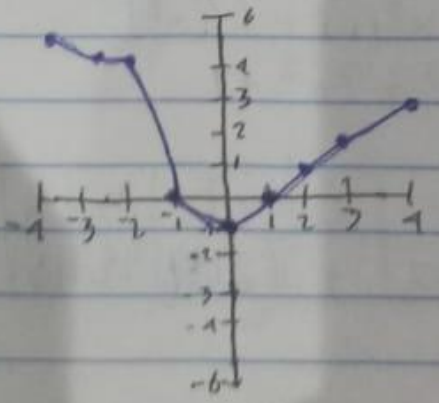
C) $Y = 3x^2 - 8$

x	-4	-3	-2	-1	0	1	2	3	4
y	40	19	4	-5	-8	-5	4	19	40



D) $Y = (x^2 - 1) / (x + 1)$

x	-4	-3	-2	-1	0	1	2	3	4
y	5.6	5	5	0	-1	0	1	2	3



2: A) $F(x) = 3x - 2$ $G(x) = x^2 + 4$ Hallar las ecuaciones y su dominio

$F(x)\ 3x-2$ $G(x) = x^2 + 1$

$f+g = (3x-2) + (x^2+4)$

$f+g = x^2 + 3x + 2$

$y = (3x-2)$

x	-4	-3	-2	-1	0	1	2	3	4
y	-14	-11	-8	-5	-2	1	4	7	10

$f \cdot g = \frac{(3x-2)\cdot(x^2+1)}{3x^3 + 12x - 2x^2 - 8}$

$f(x) \cdot g(x) = 3x^3 + 2x^2 + 12x - 8$

$y\ (x^2+4)$

x	-4	-3	-2	-1	0	1	2	3	4
y	20	13	8	5	4	5	8	13	20

B) $F(x) = \sqrt{(x+4)}$ $G(x) = \sqrt{(x-1)}$ Hallar ecuaciones y su dominio

$f(x) + g(x) = \sqrt{(x+4)} + \sqrt{(x-1)}$

$f(x) + g(x) = \sqrt[2]{x^2 + 4 - 1}$

$f(x) \cdot g(x) = \sqrt{(x+4)} \cdot \sqrt{(x-1)}$

C) $F(x) = x^3 + 1$ $G(x) = 2x^2$ Hallar ecuaciones y su dominio

$f(x) + g(x) = (x^3+1) + (2x^2)$

$f(x) + g(x) = x^3 + 2x^2 + 1$

$f(x) \cdot g(x) = \frac{(x^3+1)\cdot(2x^2)}{2x^5 + 2x^2}$

x	-4	-3	-2	-1	0	1	2	3	4
y	-63	-26	-7	0	1	2	9	28	65

x	-4	-3	-2	-1	0	1	2	3	
y	32	18	8	2	0	2	8	18	

3) A) $f(x) = x^3 - 7x^2 - 6x + 12$ demostrar que $f(7) = 0$ Y $f(1) = 30$

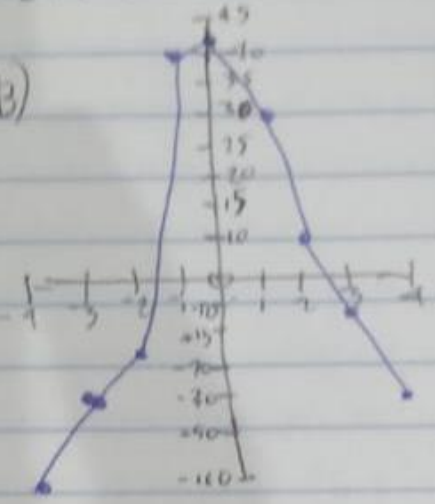
$f(x) = 30$

$f(x) = 13 - 7(x)^2 - 6(x) + 12 = 30$

$f(x) = x - 7^2 - 7(7) - 6(x) + 12 = 0$

x	-1	-3	-2	-1	0	1	2	3	1
y	-110	-30	-10	10	12	30	10	-12	30

B)



C) Sean f y g las funaones denotadas por:

Encontrar $(F+g)$ Y $(5 \cdot g)$

$F = \{(1,4), (2,5), (5,6), (7,2)\}$

$G = \{(2,5), (1,-3), (5,1), (6,18), (7,13)\}$

$Df = \{1, 2, 5, 7\}$ $Rf = \{4, 5, 8, -2\}$

$Dg = \{2, 1, 5, 6, 7\}$ $Rg = \{5, -3, 1, 18, 13\}$

$Df + Dg = \{3, -1, 10, 13, 7\}$

$Rf + Rg = \{9, 2, 9, 16, 13\}$

$F + g = \{(3,9), (-1,2), (10,9), (13,16), (7,13)\}$