1			11
9	Ui	0	7

1-f(x) = x = -4x +5 2x	F145 4 (1) 5 - (1) = (3) 1
Cottixion	A = 2+8+5 - ( + (1))
(x - 5) (x + 1) x =	2
	Pupa de una le main
X = 5 f'(x) = (2)	1-4(2)+5
	3-1-6x +3 - 6x -6
4" = 2	6-f(x) = 2 x + 3 x - 36 x
2-1-X	6x+6x-86
2: f(x) = 6 x - x - = f(3) =	0(3)(7)
1 (3) = 9	( 3- × + × ) 9
f'(x) = -2x+6	
	= 92-18 41 (8-) 5 = (x) 7
x = 3	(x)= = (=) = + 3 (=) = + 36 (
3 + 1(x) = x3 + 2 x + 5 + (0) =	0 - 2(0) +5 Maximo
f (o) =	S. FS F ominim
3 x2 - 4 x = 0	
x (3x-4) =0 +(4)=(	3) - 2(3) + 5 Mimmimo F
7 (2):	103
v = 9 6 1 - 4 - 6 - 6 - 6 - 6	20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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4. f(x) = x3 -3x +5	
	(1×4×6+01-) 3
0 3 4 4	(x+x) (x+x)
3 x 2 - 3 = 0 f(1) = (1) 3 - 3(4	1) +S 2 = X
3 (x2-1)=0 f(1)=1-3+5	3 minimo S-+sk
X , z 1	
× = -1	S = >7 maxima
5. f(x) = x3 - 3 x 2 + 3x +5.	
3 x 1 - 6 x +3 x,=1	
3(x2-2x+1)=0 X1=1	
(x -1) (x -1)	
(1) (2-1)	

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f(x) = (1)3-3(	A STATE OF THE PARTY OF THE PAR		- "x " (x) +-1
f(1) = 1 -3+3			
	= 2	× (6)	# X ( 2 - X)
Punta de intlexió	0		
2 4 6 17	(2)4-46)		2 - X
3x2-6x+3 -	6x -6.	X = 1	1+ a X
C (1) 1 2 3 4 1 2	4 4 1		
6 - f(x) = 2 x 2 + 3			2 = "+
6 x2 + 6 x - 36		×,=	
6 (x+x-6)			20 100 1
G (X T X - 6)	1 5	(8)	2 5 5 5 19
f (x) = 2 (-3)5+	21-213-20	( +) + 1 > - 9	3 + STE (N) 1
f(x)= z(2)3+3			
+(x)- 2(2) 13	20 (2)	114 24	c = x
Maximo = 98	100 - 0 -	2 x 4 x 5	3 1xx - x 5
Minimo = -23		(0) 4	1
			0 = x P - 1 x &
7- f(x) = 10 + 60 x	+9 12 9 3		0- (e-x2) x
1, 10, 100		(40+	Took.
60+18x-6x2		5 > maximo	
6 (10+3 x - x2)			
-6 (-10 + 3 x +x2)		21	
(x+2)(x-5)	-12×		
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14 - f(x) = x 2 e -x/3 15 - 1(x) = (x+4) E - x/5 e x/s [-1 (x+4)++ 2 (x+4)] =0 1 (x+4) + 2 (x+4) =0 + (x)=(e-x/5(-1)+e5(2)(x+4)  $2(x+4) = \frac{1}{5}(x+4)^2$   $e^{-\frac{1}{5}(x+4)^2+2(x+4)} = 0$ 2 = 12(x+4) -1 (x+4)+2 (x+4)=0 10 - 4 = X (6+4)2 e = 30.11 (6, 30.11) maximo (8)2e = 28.75 (4 28.75) maximo

$$f(x) = \frac{1 - \ln x}{x}$$

$$f'(x) = \frac{x \left(-\frac{1}{x}\right) - (1 - \ln x)(1)}{x^{2}}$$

$$f'(x) = \frac{\ln x - 2}{x^{2}}$$

$$f'(x) = \frac{\ln x - 2}{x^{2}}$$

$$f(e^{z}) = \frac{1 - \ln e^{z}}{e^{z}}$$

$$f(e^{z}) = -e^{z}$$

$$f''(x) = \frac{x + \left(\frac{1}{x}\right) - \left(\ln x - 2\right)(2x)}{x^{4}}$$

$$f''(x) = \frac{5x - 2x \ln x}{x^{4}} = 0$$

$$\frac{x (5 - \ln x)}{x^{4}} = 0$$

$$x (s-2\ln x) = 0$$

$$s-2\ln x = 0$$

$$s = 2\ln x$$

$$f(e^{5/2}) = 1 - \ln(e^{5/2})$$

$$\ln_x = \frac{5}{2}$$

$$4(e^{5/2}) = -\frac{3}{2}e^{-5/2}$$

$$4(e^{5/2}) = -\frac{3}{2}e^{-5/2}$$

$$(-h. abayo.)$$

$$\frac{5}{2}e^{2} - 4e^{2} = \frac{e^{2}}{e^{2}} \Rightarrow \frac{1}{6}$$

$$(-e^{5/2}, \infty)$$