

Ejercicio 10: Calcula las derivadas de las siguientes funciones:

1	$f(x) = 2$	27	$f(x) = \frac{1}{x^{20}}$	53	$f(x) = \text{sen}(\ln(x))$
2	$f(x) = \frac{\sqrt{3}}{5}$	28	$f(x) = \frac{2}{x}$	54	$f(x) = \text{sen} \sqrt{x+1}$
3	$f(x) = x$	29	$f(x) = \frac{1}{3x^2}$	55	$f(x) = \text{sen} (-2x+1)$
4	$f(x) = 2x+1$	30	$f(x) = \frac{1}{x} + \frac{3}{x^2} + \frac{1}{3x^5}$	56	$f(x) = \text{sen} \sqrt{x}$
5	$f(x) = 4x-5$	31	$f(x) = \sqrt{x}$	57	$f(x) = \text{sen} (x+1)^2$
6	$f(x) = 6-3x$	32	$f(x) = \sqrt[3]{x}$	58	$f(x) = \text{cos} (2+3x)$
7	$f(x) = x^2$	33	$f(x) = \sqrt{2x}$	59	$f(x) = \text{cos} (x+3)^2$
8	$f(x) = x^3$	34	$f(x) = \sqrt{3x^3}$	60	$f(x) = \text{cos} (-2x+1)$
9	$f(x) = x^5$	35	$f(x) = 2\sqrt{x}$	61	$f(x) = \frac{x}{x+3}$
10	$f(x) = x^7$	36	$f(x) = \frac{1}{\sqrt{x}}$	62	$f(x) = \frac{x^2}{x-3}$
11	$f(x) = x^6$	37	$f(x) = \sqrt[3]{2x} + \frac{2}{\sqrt{x}}$	63	$f(x) = \frac{3x}{x^2-1}$
12	$f(x) = x^{20}$	38	$f(x) = e^x$	64	$f(x) = \frac{3x}{x-3}$
13	$f(x) = 2x^2$	39	$f(x) = 2^x$	65	$f(x) = \frac{2}{x^3-x}$
14	$f(x) = 4x^3$	40	$f(x) = 5^x$	66	$f(x) = \frac{x}{5x^2-x}$
15	$f(x) = -5x^6$	41	$f(x) = e^{x+2}$	67	$f(x) = \frac{\text{sen}x}{x+1}$
16	$f(x) = -4x^3 + 2x - 1$	42	$f(x) = e^{x^2}$	68	$f(x) = \frac{\text{sen}x}{\text{cos}x}$
17	$f(x) = x^2 + 4x - 8$	43	$f(x) = e^{2x^3+5}$	69	$f(x) = x \cdot \text{Ln} x$
18	$f(x) = x^5 - 4x^3$	44	$f(x) = \log_2 x$	70	$f(x) = x \cdot \text{sen} x$
19	$f(x) = \sqrt{2}x^3 - \frac{3}{4}x^2$	45	$f(x) = \log_3 x$	71	$f(x) = (x^2 + 1) \cdot e^x$
20	$f(x) = (x+1)^2$	46	$f(x) = \log_5 x$	72	$f(x) = \text{sen} x \cdot \text{cos} x$
21	$f(x) = (x+1)^3$	47	$f(x) = \log_5 (x+3)$	73	$f(x) = x^2 \cdot \text{sen}(x)$
22	$f(x) = (2x-1)^2$	48	$f(x) = \text{Ln} (x+5)$	74	$f(x) = x^2 \cdot \text{Ln}(x)$
23	$f(x) = (x^2+1)^5$	49	$f(x) = \text{Ln} (x^2+1)$	75	$f(x) = x^2 \cdot \sqrt{x}$
24	$f(x) = \frac{1}{x}$	50	$f(x) = \text{Ln} \sqrt{x}$		
25	$f(x) = \frac{1}{x^2}$	51	$f(x) = \text{sen} (2x+1)$		
26	$f(x) = \frac{1}{x^4}$	52	$f(x) = \text{sen} (x^2+3)$		

