Derivades

1. Calcula les derivades

$y = 4x^3$

$y = 2x - x^4$

$y = 2x - 6 + 3x^2$

$y = \frac{x^3}{4}$

$y = \frac{x^2}{2} + \frac{3x^5}{4}$

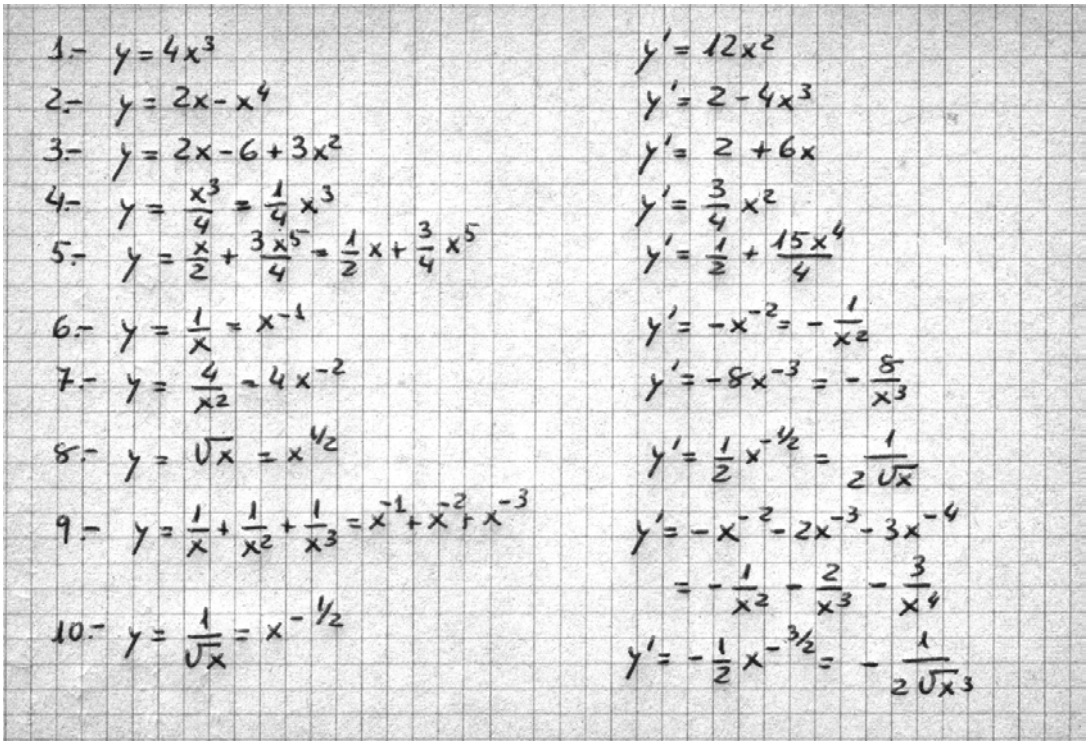
$y = \frac{1}{x}$

$y = \frac{4}{x^2}$

$y = \sqrt{x}$

$y = \frac{1}{x} + \frac{1}{x^2} + \frac{1}{x^3}$

$y = \frac{1}{\sqrt{x}}$



Calcula les derivades

$y = \sqrt[3]{x}$

$y = \frac{3}{\sqrt[3]{x}}$

$y = x^3 + 4x^2 - \sqrt{x}$

$y = \frac{7\sqrt{x}}{3}$

$y = \frac{1}{6\sqrt{x}}$

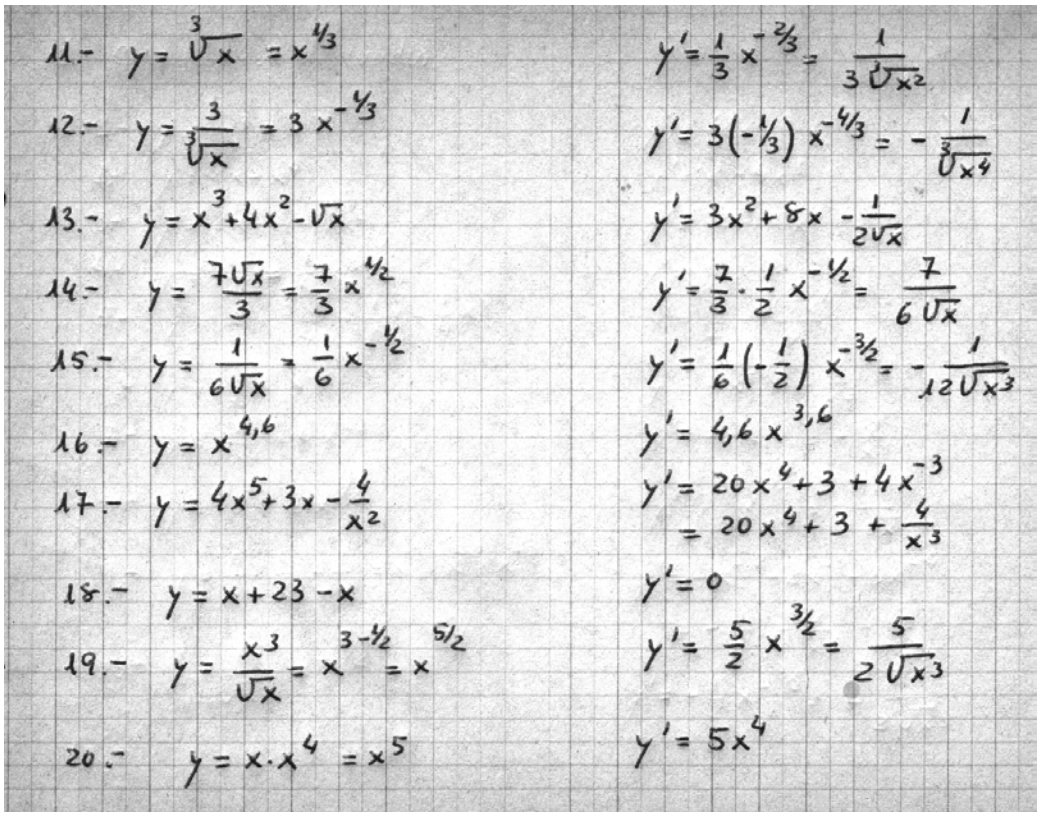
$y = x^{4,6}$

$y = 4x^5 + 3x - \frac{4}{x}$

$y = x + 23 - x$

$y = \frac{x^3}{\sqrt{x}}$

$y = x.x^4$



2. Calcula les derivades dels productes i quocients

$y = x^3(2x+1)$

$y = (2x+1)(3x-3)$

$y = (x^2+1)(2x+5)$

$y = \dfrac{x+1}{x}$

$y = \dfrac{2x+1}{x}$

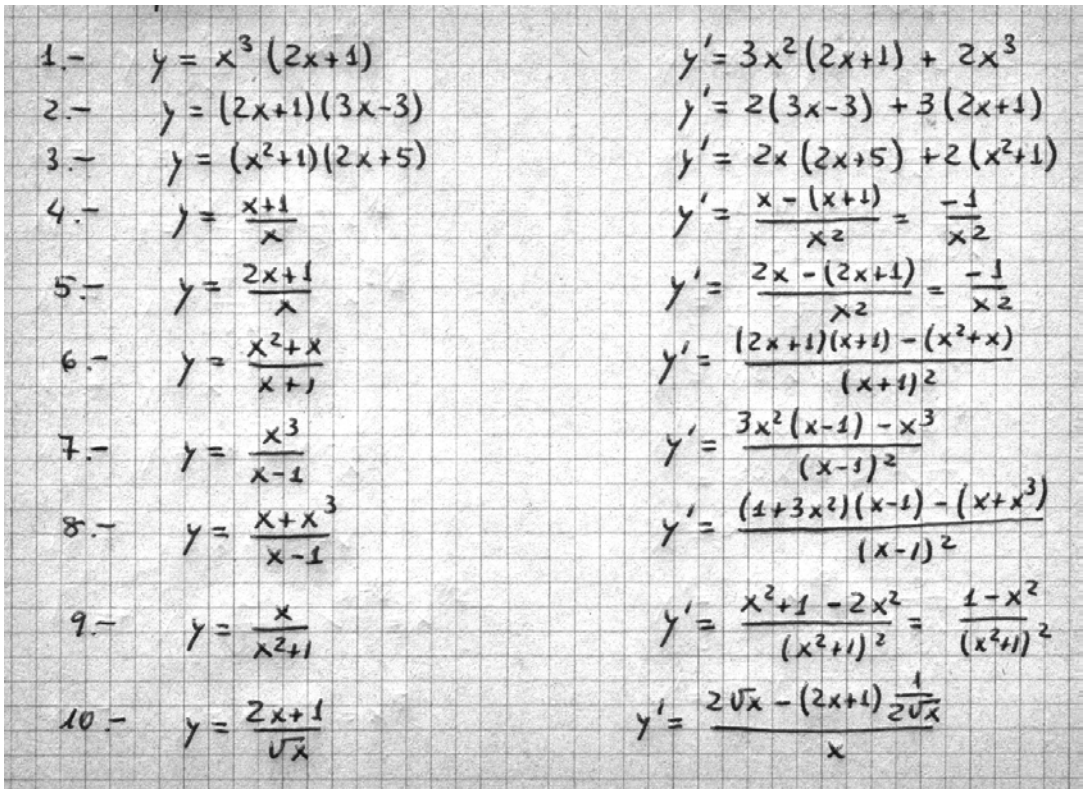
$y = \dfrac{x^2+x}{x+1}$

$y = \dfrac{x^3}{x-1}$

$y = \dfrac{x+x^3}{x-1}$

$y = \dfrac{x}{x^2+1}$

$y = \dfrac{2x+1}{\sqrt{x}}$



3. Recorda la derivada de sin x i aplica la regla de la cadena

$y = \sin 2x$

$y = \sin \frac{x}{5}$

$y = \frac{\sin 5x}{2}$

$y = \sin x^2$

$y = \sin^2 x$

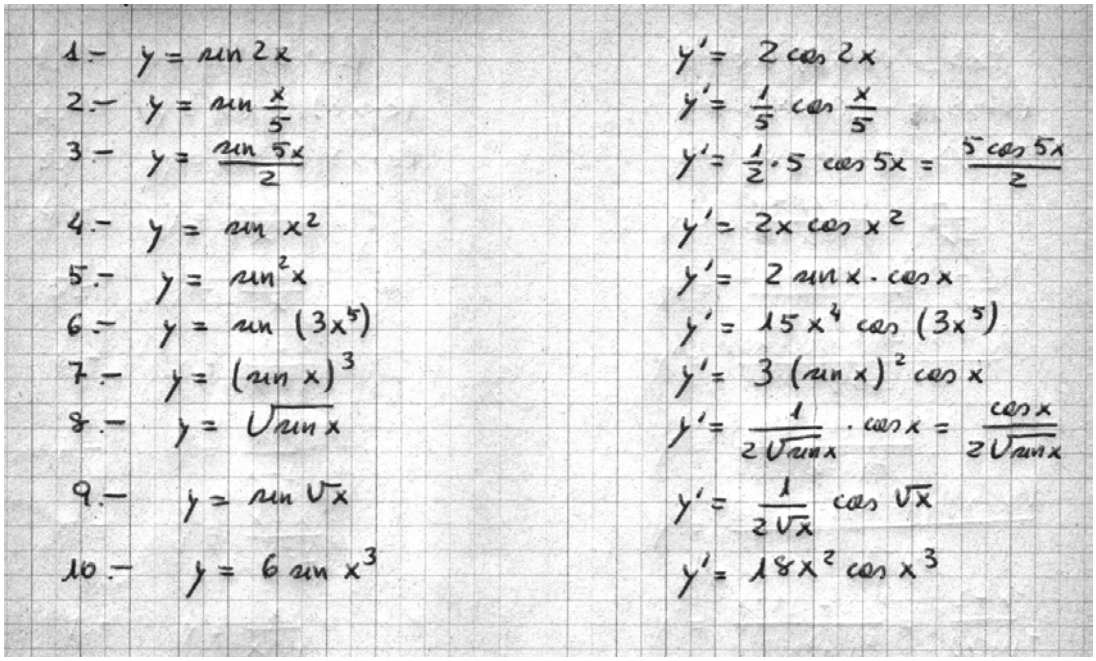
$y = \sin(3x^5)$

$y = (\sin x)^3$

$y = \sqrt{\sin x}$

$y = \sin \sqrt{x}$

$y = 6 \sin x^3$



4. Deriva les funcions

$y = e^{5x}$

$y = 5e^{8x}$

$y = e^{\sin x}$

$y = x^2 e^{3x}$

$y = 6x^3 \cos x$

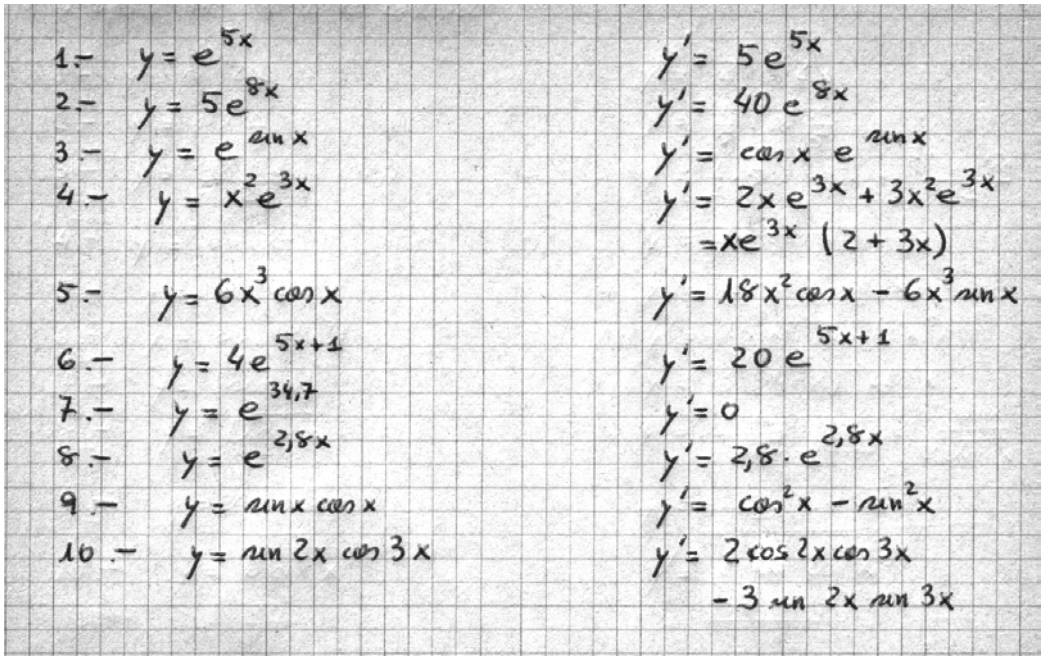
$y = 4e^{5x+1}$

$y = e^{34,7}$

$y = e^{2,8x}$

$y = \sin x.\cos x$

$y = \sin 2x.\cos 3x$



5. Deriva

$y = x^3 \sin x$

$y = \dfrac{\sin x}{x}$

$y = x^2 - \sin x$

$y = x^3 e^x$

$y = e^{\sqrt{x}}$

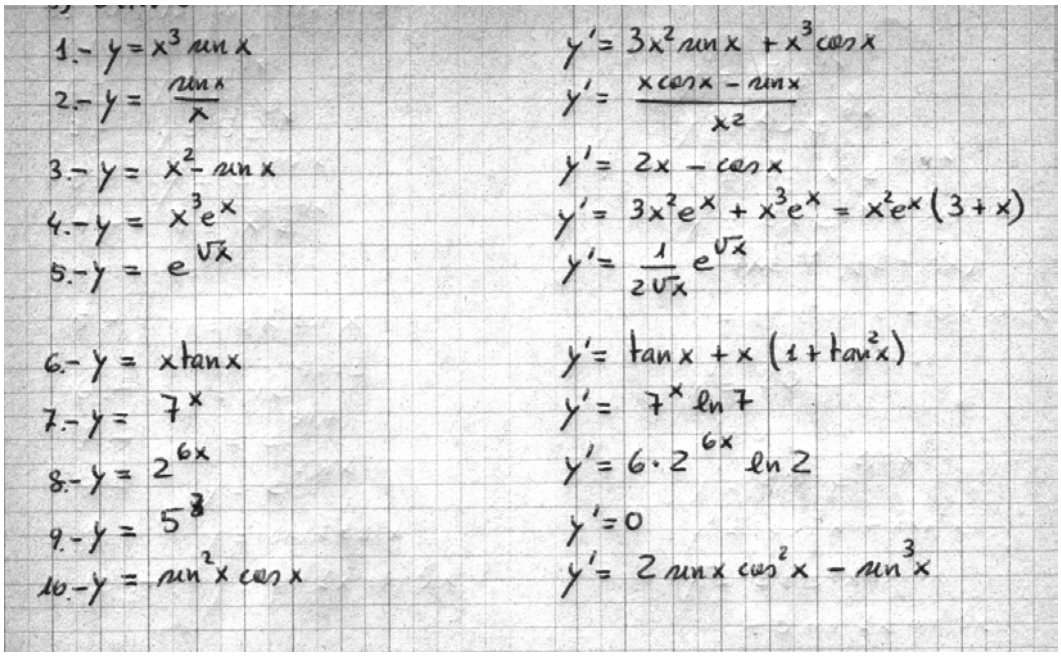
$y = x \tan x$

$y = 7^x$

$y = 2^{6x}$

$y = 5^3$

$y = \sin^2 x.\cos x$



6. Deriva

$y = (x + \sin x)^3$
$y = \ln 7x$
$y = \ln x^2$
$y = \ln \sin x$
$y = \ln x . \sin x$
$y = \ln(x^2 + x)$
$y = \ln^2 x$
$y = \ln \sqrt{x}$
$y = 7 \ln(7x + 1)$
$y = \sin \ln x$