

**Determinare la derivata di ciascuna funzione**

1.  $f(x) = \frac{\ln(3-x)}{2}$

2.  $f(x) = e^{x-3}$

3.  $f(x) = -2x + 4$

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

5.  $f(x) = \ln(x+6)$

6.  $f(x) = 2x^2 - 1$

7.  $f(x) = 1 - \frac{1}{2x}$

8.  $f(x) = \frac{x^2 + 3x - 4}{x - 1}$

9.  $f(x) = \sqrt{x+5} - \sqrt{x}$

10.  $f(x) = \ln\left(\frac{1}{x-e}\right)$

11.  $f(x) = \frac{x+1}{x}$

12.  $f(x) = \log(10x^2 - 7x + 1)$

13.  $f(x) = \sqrt[5]{x-4}$

14.  $\frac{1}{x-2}$

15.  $\frac{1}{2}x^4 - \frac{2}{3}x^3 - 6x + 7$

16.  $\sin x - x$

17.  $\frac{1}{\sqrt{x}} + \frac{1}{x^2}$

18.  $x^2e^x$