y^{l} of any function

$y = -5$

$y^{l} = 0$

$Y = \pi$

$y^{l} = 0$

$y = x$

$y^{l} = 1$

$y = 3(-x+4)$

$y = -3x + 12$

$y^{l} = -3$

$y = \frac{x-2}{3}$

$y = \frac{x}{3} - \frac{2}{3}$

$y^{l} = \frac{1}{3}$

General:

$y = x^{n}$

$y^{l} = n.x^{n-1}$

$y = x^{2}$

$y^{l} = 2.x$

$y = x^{3}$

$y^{l} = 3.x^{2}$

$y = x^{4} - x$

$y^{l} = 4.x^{3} - 1$