

Derivatnak

Basikuenak

$$y = k$$

$$y' = 0$$

$$y = x$$

$$y' = 1$$

$$y = k \cdot u$$

$$y' = k \cdot u'$$

$$y = u^n$$

$$y' = n \cdot u^{n-1} \cdot u'$$

$$y = u \pm v$$

$$y' = u' \pm v'$$

$$y = u \cdot v$$

$$y' = u' \cdot v + v' \cdot u$$

$$y = \frac{u}{v}$$

$$y' = \frac{u' \cdot v - v' \cdot u}{v^2}$$

Exponentzialak

$$y = a^n$$

$$y' = u' \cdot a^n \cdot \ln a$$

! GOGORATU $\leadsto \ln_e = 1$

Logaritmikoak

$$y = \log_a u$$

$$y' = \frac{u'}{u} \cdot \log_a e$$

! GOGORATU $\leadsto \log_e = \ln$, beraz, $\log_e e = \ln_e = 1$

$$y = \sin u$$

$$y' = u' \cdot \cos u$$

$$y = \cos u$$

$$y' = -u' \cdot \sin u$$

$$y = \tan u$$

$$y' = \frac{u'}{\cos^2 u}$$

$$y = \arcsin u$$

$$y' = \frac{u'}{\sqrt{1-u^2}}$$

$$y = \arccos u$$

$$y' = \frac{-u'}{\sqrt{1-u^2}}$$

$$y = \arctan u$$

$$y' = \frac{u'}{1+u^2}$$