

## Derivace a integrace elementárních funkcí

$$y = x^n \quad \frac{dy}{dx} = nx^{n-1} \quad \int x^m dx = \frac{x^{m+1}}{m+1} + C$$

$$y = x = x^1 \quad \frac{dy}{dx} = 1 (= 1x^{1-1} = x^0) \quad \int 1 dx = x + C$$

$$y = konst. \quad \frac{dy}{dx} = 0$$

$$y = \sin x \quad \frac{dy}{dx} = \cos x \quad \int \cos x dx = \sin x + C$$

$$y = \cos x \quad \frac{dy}{dx} = -\sin x \quad \int \sin x dx = -\cos x + C$$

$$y = e^x \quad \frac{dy}{dx} = e^x \quad \int e^x dx = e^x + C$$