

## Chapter 1

# Derivative Formulæ

### 1.1 General Functions

For any two functions  $u$  and  $v$ :

$$(u + v)' = u' + v'$$

When there is a constant,  $c$ :

$$(c \cdot u)' = c \cdot u'$$

### 1.2 Trigonometric Functions

$$\frac{d}{dx} \sin x = \cos x$$

$$\frac{d}{dx} \cos x = -\sin x$$