Formula sheet

$$\frac{\mathrm{d}}{\mathrm{d}x}\arcsin x = \frac{1}{\sqrt{1-x^2}}$$
$$\frac{\mathrm{d}}{\mathrm{d}x}\arccos x = -\frac{1}{\sqrt{1-x^2}}$$
$$\frac{\mathrm{d}}{\mathrm{d}x}\arctan x = \frac{1}{1+x^2}$$
$$\frac{\mathrm{d}}{\mathrm{d}x}\log_b x = \frac{1}{\ln(b)x}$$
$$\frac{\mathrm{d}}{\mathrm{d}x}\tan x = \sec^2 x$$
$$\frac{\mathrm{d}}{\mathrm{d}x}\sec x = \tan x \sec x$$

$$\frac{\mathrm{d}}{\mathrm{d}x}\left(\frac{n(x)}{d(x)}\right) = \frac{n'(x)d(x) - n(x)d'(x)}{(d(x))^2}$$

Indeterminate forms: ε and δ are infinitesimal, H and K are infinite.

$$\varepsilon/\delta \qquad H/K \qquad \varepsilon \cdot H \qquad H + K$$

$$y = m(x - x_0) + y_0$$