

## REVISION SHEET – FP2 (AQA)

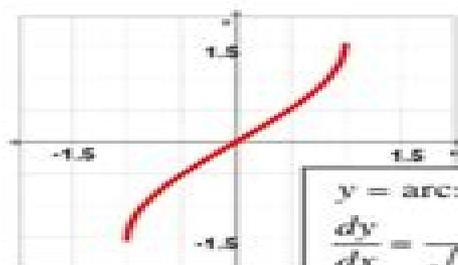
## CALCULUS

**The main ideas are:**

- Calculus using inverse trig functions & hyperbolic trig functions and their inverses.
- Calculating arc lengths.

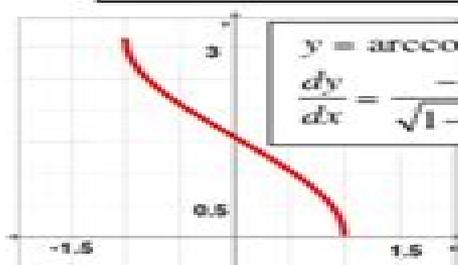
***Before the exam you should know:***

- That you can differentiate the trig functions, the hyperbolic trig functions and their inverses.
- That you can apply the standard rules for differentiation (product rule, quotient rule and chain rule) to functions which involve the above.
- That you can integrate trig functions and hyperbolic trig functions.
- That you can integrate,  $\arcsin(x)$ ,  $\arccos(x)$ ,  $\arctan(x)$ ,  $\operatorname{arccot}(x)$ ,  $\operatorname{arsinh}(x)$ ,  $\operatorname{arcosh}(x)$  etc using integration by parts.
- Your trig identities and hyperbolic function identities and how to use them in integration problems. Particularly get familiar with useful substitutions to make for certain problems.
- How to calculate arc lengths.

**Differentiating the Inverse Trig Functions**

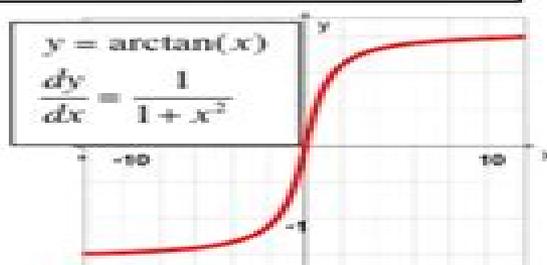
$$y = \arcsin(x)$$

$$\frac{dy}{dx} = \frac{1}{\sqrt{1-x^2}}$$



$$y = \arccos(x)$$

$$\frac{dy}{dx} = \frac{-1}{\sqrt{1-x^2}}$$



$$y = \arctan(x)$$

$$\frac{dy}{dx} = \frac{1}{1+x^2}$$

It is important to be aware of what the range is for each of these, namely:

$$-\frac{\pi}{2} \leq \arcsin \leq \frac{\pi}{2}, \quad 0 \leq \arccos \leq \pi, \quad -\frac{\pi}{2} \leq \arctan \leq \frac{\pi}{2}$$

**Standard Calculus of Inverse Trig and Hyperbolic Trig Functions**

$$y = \arcsin(x)$$

$$\frac{dy}{dx} = \frac{1}{\sqrt{1-x^2}}$$

$$y = \arccos(x)$$

$$\frac{dy}{dx} = \frac{-1}{\sqrt{1-x^2}}$$

$$y = \arctan(x)$$

$$\frac{dy}{dx} = \frac{1}{1+x^2}$$

$$y = \operatorname{arsinh}(x)$$

$$\frac{dy}{dx} = \frac{1}{\sqrt{1+x^2}}$$

$$y = \operatorname{arcosh}(x)$$

$$\frac{dy}{dx} = \frac{1}{\sqrt{x^2-1}}$$

$$\int \frac{1}{x^2+a^2} = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + c$$

$$\int \frac{1}{\sqrt{a^2-x^2}} = \arcsin\left(\frac{x}{a}\right) + c$$

$$\int \frac{1}{\sqrt{x^2-a^2}} = \operatorname{arcosh}\left(\frac{x}{a}\right) + c$$

$$\int \frac{1}{\sqrt{x^2+a^2}} = \operatorname{arsinh}\left(\frac{x}{a}\right) + c$$

# Ep2 Revision Guide

**C Cleary**



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