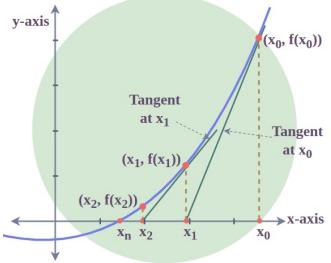
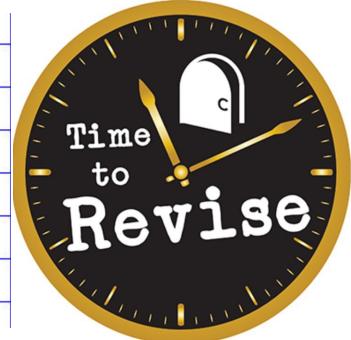
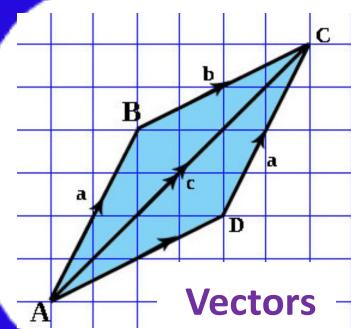


LEARNING JOURNEY



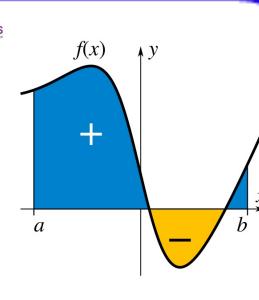
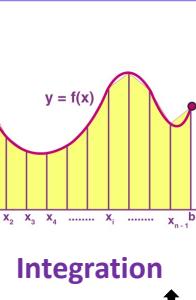
integral



Iteration

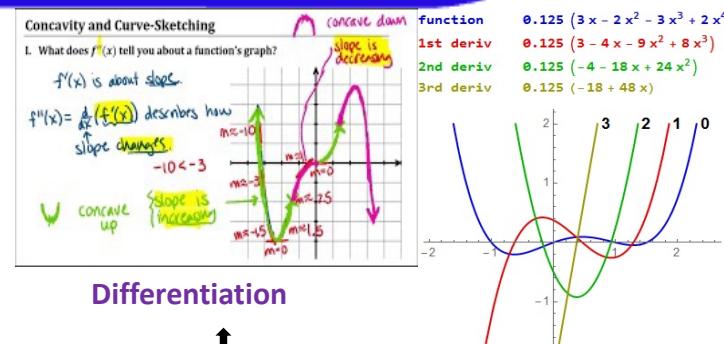
$$x_{n+1} = \sqrt[3]{2x_n + 3}$$

Numerical methods

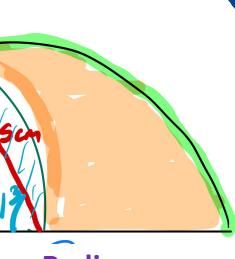
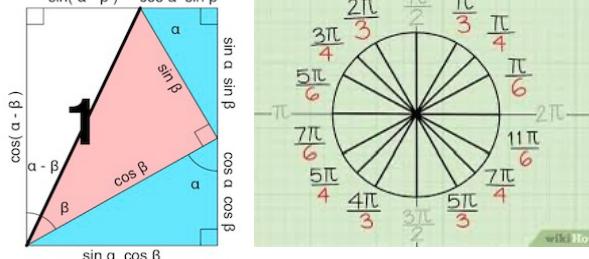


PLANE CURVES & PARAMETRIC EQUATIONS
 $x = 4\cos t$ $y = 3\sin t$
 $0 \leq t \leq 2\pi$

Parametric equations



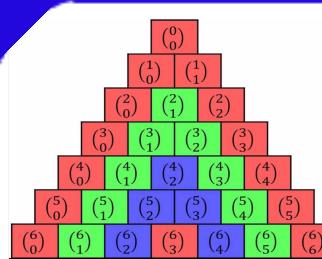
The Harmonic Form ($R\cos x + a$)



Trigonometric functions

Trigonometry & modelling

Radians



Binomial Distribution

$$P(x=r) = {}^n C_r p^r q^{n-r}$$

Mean = $n \cdot p$

Variance = $n \cdot p \cdot q$



Binomial expansion

$$\sum_{r=2}^4 4r^2$$

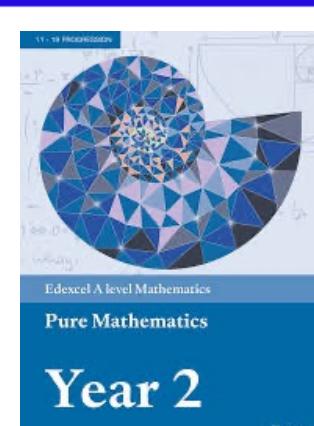
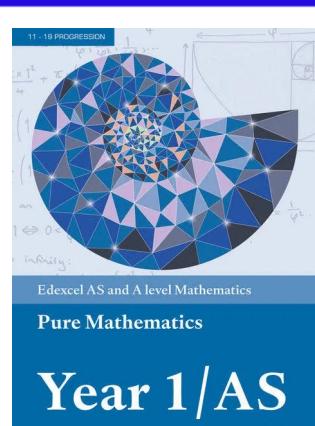
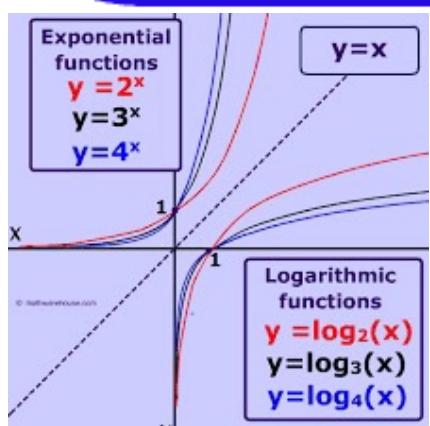
Highest r value
Initial r value
General expression



YEAR
13



Sequences & series



$$\begin{aligned} \sin(2x) &= 2 \sin x \cos x \\ \cos(2x) &= \cos^2 x - \sin^2 x \\ \cos(2x) &= 1 - 2\sin^2 x \\ \cos(2x) &= 2 \cos^2 x - 1 \end{aligned}$$