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## For Engineering Differentiation Tutorial

2.2 DIFFERENTIATING A CONSTANT. Consider the equation  $y = a x^n$ . When  $n = 0$  this becomes  $y = a x^0 = a$  (the constant). (Remember that anything to the power of zero is unity). Using the rule for differentiation  $dy/dx = anx^{n-1} = a(0)x^{-1} = 0$  The constant disappears when integrated. This explains why, when you do integration

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Put another way, we can substitute a function into another function to simplify the

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differentiation process. WORKED EXAMPLE No.1  
Given that  $y = (x^2 + 3x + 1)^2$  find  $\frac{dy}{dx}$  at  
the point  $x = 2$  SOLUTION Substitute  $u = f(x)$   
 $= (x^2 + 3x + 1)$  so  $y = f(u) = u^2$   $\frac{dy}{dx} = \frac{dy}{du} \frac{du}{dx}$   
 $f'(x) = 2u \frac{du}{dx}$   $f'(u) = 2u$   $\frac{dy}{dx} = 2u \frac{du}{dx}$   
 $2u(2x + 3) \frac{dx}{dx}$

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this course is to provide students with the knowledge of not only mathematical theories but also their real world applications so

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Knowing the definition of differentiation and integration from the first principle and how to use some properties and rules to find the derivatives and integration of more complicated functions Ability to do basic complex number arithmetic using both polar and rectangular forms.



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Implicit differentiation

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