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Formula Sheets.  $y=f(x)$   $\frac{dy}{dx} = nx^{n-1}$   $e^x$ .  
 $x^n$   $e^x$   $\ln x$   $\sin x$   $\cos x$   $e^{kx}$   $a^x$ .  $\frac{1}{x}$   $\cos x$   
 $-\sin x$   $k e^{kx}$   $a^x \ln a$ .  $\tan x$   $\cot x$   $\sec x$   
 $\operatorname{cosec} x$   $\sinh x$   $\cosh x$ .  $\sec^2 x$   $-\operatorname{cosec}^2 x$   
 $\sec x$ .  $\tan x$   $-\operatorname{cosec} x$ .  $\cot x$   $\cosh x$   $\sinh x$ .  
 If  $y = uv$ , then.  $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$   
 $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$ .  $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$ .  
 If  $y = \frac{u}{v}$ , then  $\frac{dy}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$ .  
 If  $y = y(v)$  where  $v = v(x)$ , then

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successes in  $n$  trials  $p$  = probability of a success

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binomial probability of  $k$  successes in  $n$

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trials  $p$  = probability of a success  $-p$  = probability of failure  $k$  = number of successes  $n$  = number of trials.

Independent Events.  $P(A \text{ and } B \text{ and } C) = P(A).$

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This last result is a special case of the more general formula,  $N \sum_{n=1}^N n(n+1)$

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$(n+2) \dots (n+r) = N(N+1)(N+2) \dots (N+r)(N+r+1)$   $r+2$ . Plane wave expansion  
 $\exp(ikz) = \exp(ikr \cos \theta) = \sum_{l=0}^{\infty} (2l+1) i^l j_l(kr) P_l(\cos \theta)$ , where  $P_l(\cos \theta)$  are Legendre polynomials (see section 11) and  $j_l(kr)$  are spherical Bessel functions, denoted by  $j_l(\hat{r}) = r^{-1/2} J_{l+1/2}(kr)$

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