

# ENGINEERING MATHEMATICS

## STUDY NOTES

$\pi/4 = 1/1 - 1/3 + 1/5 - 1/7 + \dots$   
 CONE =  $(1/3) \pi R^2 H$

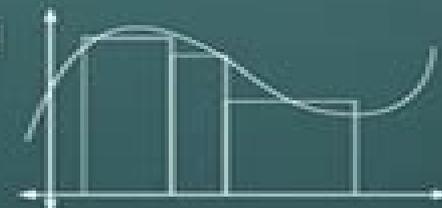
1.  $|-A| = |A|$

2.  $|A| \geq 0$

$(N 2100 - (N 1081 - (N 202$

GAMMA = - INTEGRAL(0- $\infty$ )  $E^{-X} \ln X \, DX$

$| -23 | + | 4 |$



$- (X-2) = 9$   
 $-X - 2 = 9$   
 $-X = 11$   
 $X = -11$

### ABSOLUTE VALUE

$(4/3) \pi R_1 R_2 R_3$

PYRAMID =  $(1/3) B H$

$4 \times \pi \times R^2$

$A+B = C$



$L=50,000$

$99 = XCIX$



$\text{GAMMA}(X+1) = X \text{ GAMMA}(X)$

$|A - B| \geq |A| - |B|$

$B = A (1 - R/N) \text{NT} - P$

$(1/2) D10Z$

$P = C E RT$

$V=5,000$

$\text{GAMMA}(X) = R X (\text{INTEGRAL}(0 \text{ TO } \infty) E^{-RT} T^{(X-1)} DT$

1.  $|-A| = |A|$

$P = C (1 + R) T$



# Applied Mathematics 1 Diploma Engineering Notes

**Lei Huang**



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