



ASP-I/BMGICC-IA/MATH-GE-I/19 (2)

(b) If the line $x \cos \alpha + y \sin \alpha = p$ touches the curve $\frac{x^m}{a^m} + \frac{y^m}{b^m} = 1$, show that

$$(a \cos \alpha)^{\frac{m}{m-1}} + (b \sin \alpha)^{\frac{m}{m-1}} = p^{\frac{m}{m-1}}$$

(c) Find the radius of curvature of the curve $y = x e^{-x}$ at the point where y is a maximum.

(d) Expand $\log(1 + \tan x)$ using Maclaurin's theorem.

(e) If $y = e^{a \sin^{-1} x}$, then prove that $(1 - x^2)y_{n+2} - (2n + 1)xy_{n+1} - (n^2 + a^2)y_n = 0$.

(f) Using Taylor's theorem, show that $1 + \frac{x}{2} - \frac{x^3}{8} < \sqrt{1+x} < 1 + \frac{x}{2}, x > 0$.

3. Answer any two questions:

10×2=20

(a) (i) If $lx + my = 1$ is a normal to the parabola $y^2 = 4ax$, then show that $al^3 + 2alm^2 = m^2$.

(ii) State Lagrange's Mean Value Theorem. Use it to prove $0 < \frac{1}{x} \log \left(\frac{e^x - 1}{x} \right) < 1$.

5+(2+3)=10

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Zhe Xu



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