

Handwritten mathematical notes and diagrams on a grid background:

- Trigonometry:**
  - $\sin^2 x + \cos^2 x = 1$
  - $\sin 2x = 2 \sin x \cos x$
  - $\cos 2x = \cos^2 x - \sin^2 x$
  - $\sin^2 x = \frac{1 - \cos 2x}{2}$
  - $\cos^2 x = \frac{1 + \cos 2x}{2}$
  - $\sin x = \frac{y}{r}$ ,  $\cos x = \frac{x}{r}$
  - $\tan x = \frac{\sin x}{\cos x}$
  - $\sin x \cdot \cos^3 x dx$
  - $\sin^2 x \cdot \cos^3 x dx$
  - $\sin^2 x = 2 \sin x \cdot \cos x$
  - $|\vec{z}| = \sqrt{a^2 + b^2}$
  - $\sin x \cdot \cos x$
- Algebra:**
  - $\Delta PE = \frac{1}{2} m v^2$
  - $\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$
  - $a^2 + b^2 = c^2$
  - $y = \sqrt{x+1}$
  - $x = \tan t$
  - $(1 + e^x) y y' = e^x$
  - $2x^2 y y' + y = 2$
  - $F_2 = 2x^2 y - 7 = 7$
  - $x_1 = \frac{2 + \sqrt{4 + 12}}{2}$
  - $\eta_1 = \lambda_1^2 - 3\lambda_1 + 1 \neq 0$
  - $x_1 = -1, x_2 = -1, x_3 = 7, p \in \mathbb{R}$
  - $\frac{\sin x}{x} \leq \frac{x}{x} = 1$
- Calculus:**
  - $\int \frac{1}{x} dx = \ln|x| + C$
  - $\int \frac{1}{x^2} dx = -\frac{1}{x} + C$
  - $\int \frac{1}{x^3} dx = -\frac{1}{2x^2} + C$
  - $\int \frac{1}{x^4} dx = -\frac{1}{3x^3} + C$
  - $\int \frac{1}{x^5} dx = -\frac{1}{4x^4} + C$
  - $\int \frac{1}{x^6} dx = -\frac{1}{5x^5} + C$
  - $\int \frac{1}{x^7} dx = -\frac{1}{6x^6} + C$
  - $\int \frac{1}{x^8} dx = -\frac{1}{7x^7} + C$
  - $\int \frac{1}{x^9} dx = -\frac{1}{8x^8} + C$
  - $\int \frac{1}{x^{10}} dx = -\frac{1}{9x^9} + C$
  - $\int \frac{1}{x^{11}} dx = -\frac{1}{10x^{10}} + C$
  - $\int \frac{1}{x^{12}} dx = -\frac{1}{11x^{11}} + C$
  - $\int \frac{1}{x^{13}} dx = -\frac{1}{12x^{12}} + C$
  - $\int \frac{1}{x^{14}} dx = -\frac{1}{13x^{13}} + C$
  - $\int \frac{1}{x^{15}} dx = -\frac{1}{14x^{14}} + C$
  - $\int \frac{1}{x^{16}} dx = -\frac{1}{15x^{15}} + C$
  - $\int \frac{1}{x^{17}} dx = -\frac{1}{16x^{16}} + C$
  - $\int \frac{1}{x^{18}} dx = -\frac{1}{17x^{17}} + C$
  - $\int \frac{1}{x^{19}} dx = -\frac{1}{18x^{18}} + C$
  - $\int \frac{1}{x^{20}} dx = -\frac{1}{19x^{19}} + C$
  - $\int \frac{1}{x^{21}} dx = -\frac{1}{20x^{20}} + C$
  - $\int \frac{1}{x^{22}} dx = -\frac{1}{21x^{21}} + C$
  - $\int \frac{1}{x^{23}} dx = -\frac{1}{22x^{22}} + C$
  - $\int \frac{1}{x^{24}} dx = -\frac{1}{23x^{23}} + C$
  - $\int \frac{1}{x^{25}} dx = -\frac{1}{24x^{24}} + C$
  - $\int \frac{1}{x^{26}} dx = -\frac{1}{25x^{25}} + C$
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  - $\int \frac{1}{x^{74}} dx = -\frac{1}{73x^{73}} + C$
  - $\int \frac{1}{x^{75}} dx = -\frac{1}{74x^{74}} + C$
  - $\int \frac{1}{x^{76}} dx = -\frac{1}{75x^{75}} + C$
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  - $\int \frac{1}{x^{85}} dx = -\frac{1}{84x^{84}} + C$
  - $\int \frac{1}{x^{86}} dx = -\frac{1}{85x^{85}} + C$
  - $\int \frac{1}{x^{87}} dx = -\frac{1}{86x^{86}} + C$
  - $\int \frac{1}{x^{88}} dx = -\frac{1}{87x^{87}} + C$
  - $\int \frac{1}{x^{89}} dx = -\frac{1}{88x^{88}} + C$
  - $\int \frac{1}{x^{90}} dx = -\frac{1}{89x^{89}} + C$
  - $\int \frac{1}{x^{91}} dx = -\frac{1}{90x^{90}} + C$

We will be reviewing candidates as they apply and will appoint the position as soon as we find an outstanding candidate.