

1) If $G(x) = \int_{2x}^{x^5} \frac{dt}{t^2+1}$ then find $G'(x)$

2) Evaluate the indefinite integral $\int x^4(2 + x^5)^{1/5} dx$

3) If $y = (3x)^{x^2}$ then find y'

4) Find the indefinite integral $\int \frac{x6^{x^2}}{3+6^{x^2}} dx$

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