

1) If  $G(x) = \int_{2x}^{x^3} \frac{dt}{t^2+1}$  then find  $G'(x)$

2) Evaluate the indefinite integral  $\int x^4(1+x^5)^{1/10} dx$

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

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

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