

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

**2)** Evaluate  $\int x^3(1+x^4)^{1/4}dx$

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

**4)** Find  $\int \frac{x^{2x^2}}{3+2x^2} dx$

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