Name	ID	SEC 09

Q1) If $f(x) = \dfrac{(x-4)(x^2+1)^3}{(x-1)e^{x^3}}$ find $f'(0)$.

Q2) A particle is moving along a parabola $xy = 8$. As it reaches the point $(4,2)$ the y-coordinate is decreasing at a rate of $3cm/s$. How fast is the x-coordinate of the point changing at that instant?