

King Fahd University of Petroleum and Minerals  
Math. & Stat. Department  
163-Math 101 Quiz (4)

Name	ID	SEC 09
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Q1) If  $f(x) = \frac{(x-4)(x^2+1)^3}{(x-1)e^{x^3}}$  find  $f'(0)$ .

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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  $3\text{cm/s}$ . How fast is the x-coordinate of the point changing at that instant?