QUIZ 4

1. (3 points) Calculate $\displaystyle\int_0^2 \frac{x}{(x^2+4)^{3/2}}\,dx.$

2. (4 points) Calculate $\displaystyle\int_2^3 \frac{2x^3}{x^2-1}\,dx.$

3. (3 points) Find the partial fractions decomposition for $\dfrac{x+1}{x^2(x^2+1)^2}.$