Math 12	6:	Calc	ulı	ıs II
Quiz 5	Oc	tober	5,	1999

Name:\_\_\_\_\_\_ Section:\_\_\_\_\_

In both problems, be sure to  $show\ all\ your\ work\ and\ include\ all\ important\ steps.$ 

1. Use the method of partial fractions to calculate  $\int \frac{x^4+1}{x^3+x} dx$ .

2. Use a trigonometric substitution to calculate  $\int \frac{1}{x^2\sqrt{x^2-1}} dx$ .