Problem Set 5-Monday

Please indicate the members who are present. Also indicate the group coordinator.

	<u> </u>
Group Number:	
Members:	
60	

$$\int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} \left(x \tan(x^4) + x^2 \right) dx$$

$$= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} \left(x \tan(x^4) + x^2 \right) dx$$

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$$= \int_{-\frac{\pi}{3}}^{\frac{\pi}{3}} \left(x \tan(x^4) + x \tan(x^4) + x^2 \right) dx$$

$$\int_0^{\frac{1}{2}} \frac{\cos(\sin^{-1} x)}{\sqrt{1 - x^2}} dx$$

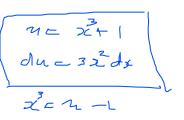
$$= \int_0^{\frac{1}{2}} \cos(\sin^{-1} x) dx$$

$$du = \frac{dz}{\sqrt{1-z^2}}$$

$$z = 0 \Rightarrow u = 0$$

$$z = \frac{1}{2} \Rightarrow u = 0$$

Find



$$\int \sqrt[3]{x^3 + 1} x^5 dx$$

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$$\int_{0}^{\frac{\pi}{4}} (1 + \tan x)^{3} \sec^{2} x \, dx$$

$$= \int_{1}^{\frac{\pi}{4}} \int_{1}^{\frac{\pi}{4}} du = \int_{\frac{\pi}{4}}^{\frac{\pi}{4}} \left(= \frac{1}{4} \left(\frac{1}{4} - 1 \right) - \frac{15}{4} \right)$$

$$\int_{0}^{1} 4e^{x} \sinh x \, dx$$

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$$= \int_{0$$