Problem Set 14 7.5: Strategy of Integration

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

Group Number:	
Members:	
Members:	

Find the integral
$$\int \frac{x + \arcsin(x)}{\sqrt{1 - x^2}} dx$$
.

Evaluate
$$\int_{-1}^{2} |e^x - 1| dx$$
.

Evaluate
$$\int \frac{\tan^{-1} x}{x^2} dx$$
.

- (a) Evaluate $\int \sqrt{1-\sin(x)}dx$.
- **(b)** Evaluate $\int_{-\pi/2}^{\pi/2} \sqrt{1 \sin(x)} dx$.

Find the integral $\int x \sin^2 x \cos x \, dx$.

Find the integral
$$\int \frac{dx}{\sqrt{x} + x\sqrt{x}}$$
.