1. Assume
$$y_1 = y_0 = y_0 \cdot x_0$$
,

$$y_2 = y_0 = y_0 \cdot x_0$$

$$y_1 = y_0 = y_0 \cdot x_0$$

$$y_1 = y_0 \cdot x_0$$

$$\frac{1}{2} \int_{0}^{2} \frac{1}{x} dx = \frac{1}{2} \int_{0}^{2} \frac{1}{x} dx$$

2.
$$f: SO(2) \rightarrow SO(2)$$
 $X_0 \rightarrow X_{30}$

Of well-defined because

 $X_0, = X_0 = X_0$ if $0 - 0 = 2k\pi$, $k \in \mathbb{Z}$.

then $X_{30}, = X_{30} = X_0 = 2k\pi$, $k \in \mathbb{Z}$.

 $f(X_0, X_{02}) = f(X_{01702})$
 $= f(X_{01702})$
 $= f(X_{01702})$
 $= f(X_{01702})$

So f is a group bound $f(X_0) = f(X_0)$
 $= f(X_0) \cdot f(X_0)$
 $= f(X_0) \cdot f(X_0)$
 $= f(X_0) \cdot f(X_0)$
 $= f(X_0) \cdot f(X_0) = f(X_0)$
 $= f(X_0) \cdot f(X_0) = f(X_0) = f(X_0)$

 $= \begin{cases} X_{\frac{2\pi}{7}}, & X_{-\frac{2\pi}{2}}, & X_{0} \end{cases}$