$$roi=id_A$$
 inversa destra  $\Rightarrow$   $r$  suriettiva  $\Rightarrow$   $r(X)=A$ 

$$X = \frac{compatto}{\frac{connesso}{cpa}} \land f: X \rightarrow Y \quad continua \implies f(X) \in Y = \frac{compatto}{\frac{connesso}{cpa}}$$

$$=> r(X) = A \frac{compatto}{connesso}$$