Universal property of quotient topology
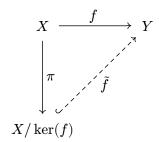
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Date: 2024-12-07

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$$X \xrightarrow{\ f\ } Y$$
$$\pi \downarrow \qquad \nearrow \tilde{f}$$
$$X/\ker(f)$$

2. Importance of the Theorem

3. Applications of the Theorem