

$$\begin{array}{ccc} & f & \\ A & \xleftarrow{\alpha} & B \\ & g & \end{array}$$

$$A \xrightarrow{G} \sin(\tan(\cos x)) \quad A \xrightarrow{G} \sin(\tan(\cos x))$$

$$A \xrightarrow{G} B$$

$$A \xrightarrow{G} B$$

$$A \xrightarrow{G} B$$

$$^G A \longrightarrow B$$

$$\begin{array}{ccc} A \times B \times C & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow{g} & A \times B \times C \end{array}$$

$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow{g} & C \end{array}$$

$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow{g} & C \end{array}$$

$$\begin{array}{ccc} A & \xrightarrow{f} & B \\ \downarrow & & \downarrow \\ A & \xrightarrow{g} & C \end{array}$$

$$\begin{array}{ccc}
 A & \xrightarrow{f} & B \\
 \downarrow & & \downarrow \\
 A & \xrightarrow{g} & C
 \end{array}$$

$$A \xrightarrow{G} B$$

$$A \xrightarrow{G} B$$

$$\begin{array}{ccc}
 A & \xrightarrow{f} & B \\
 \xrightarrow{g} & &
 \end{array}$$

Shahram
ali

$$A \dashrightarrow B$$

$$A \equiv \equiv \equiv \equiv \Rightarrow B$$

$$A \overset{f}{\curvearrowright} B$$

$$A \overset{f}{\curvearrowleft} B$$

$$A \xrightarrow{f} B$$

$$A \xrightarrow{f} B$$

$$\begin{array}{ccc}
 A \times B & \xrightarrow{A} & B \\
 \downarrow B & & \downarrow \times A \\
 A & \xrightarrow{B \times} & B \times A
 \end{array}$$

$$\begin{array}{ccc}
 A \times B & \xrightarrow{A} & B \\
 \downarrow B & & \downarrow \times A \\
 A & \xrightarrow{B \times} & B \times A
 \end{array}$$

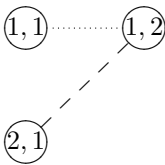
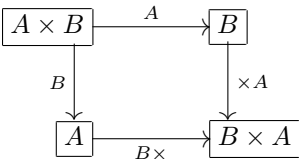
$$\begin{array}{ccc}
 A & \xrightarrow{f} & B \\
 \alpha \downarrow & & \downarrow \beta \\
 C & \xrightarrow{g} & D
 \end{array}$$

$$\begin{array}{ccc}
 P & \xrightarrow{\pi_i} & A_i \\
 \phi \uparrow & \nearrow \phi_i & \\
 B & &
 \end{array}$$

$$\begin{array}{ccc}
 P & \xrightarrow{\pi_i} & A_i \\
 \phi \uparrow & \nearrow \phi_i & \\
 B & &
 \end{array}$$

$$\begin{array}{ccc}
 A & & \\
 \downarrow \text{wavy} & \searrow & \\
 B & \cdots & C
 \end{array}$$

$$\begin{array}{ccc}
 A \times B & \xrightarrow{A} & B \\
 \downarrow B & & \downarrow \times A \\
 A & \xrightarrow{B \times} & B \times A
 \end{array}$$



$$C \xrightarrow{g^{-1}} \frac{B}{\ker \psi} = \frac{B}{\operatorname{Im} \phi} \xrightarrow{\bar{f}} D$$

$\bar{f}g^{-1}$

