$$X \stackrel{\varphi_S}{\longleftarrow} Z \stackrel{\psi_S}{\longleftarrow} V$$

$$f \downarrow \qquad \qquad \downarrow g \qquad \qquad \downarrow h$$

$$V \stackrel{}{\longleftarrow} U \stackrel{}{\longleftarrow} W$$