$F: X \times Y \to Z$ we say that F is continuous in each variable if for $y_0 \in Y$, $h: X \to Z$ as $h(x) = F(x, y_0)$ is continuous and for $x_0 \in X$ $k(y) = F(x_0, y)$ is continuous

Show that if F is continuous then it is continuous in each variable.

$g: Y \to Y$ by $g(y) = y_0$ is continuous

so $h(x) = F \circ g(x, y)$ so it is continuous.