1. Use the chain rule to find the indicated partial derivatives.
   \[ u = xy + yz + zx, \ x = st, \ y = e^{st}, \ z = t^2; \ \frac{\partial u}{\partial s}, \ \frac{\partial u}{\partial t} \ \text{when} \ s = 0, \ t = 1. \]

2. Find \( h(x, y) = g(f(x, y)) \) and the set on which \( h \) is continuous. (Sketch the set.)
   \[ g(t) = \frac{\sqrt{t-1}}{\sqrt{t+1}}, \ f(x, y) = x^2 - y. \]