$dA = \frac{\partial A}{\partial x} dx + \frac{\partial A}{\partial y} dy = y dx + x dy \text{ and } |\Delta x| \leq 0.1, |\Delta y| \leq 0.1. \text{ We use } dx = 0.1, dy = 0.1 \text{ with } x = 21, y = 50;$  then the maximum error in the area is about  $dA = 21(0.1) + 50(0.1) = 7.1 \text{ cm}^2.$