Quiz 8 Calculus III Fall 2015 (Group Quiz)

Names:	
Solve the following problems.	Each problem is worth 5 points.

Q1. Set up integral for **each** of the two orders integration. Explain which order of integration is **easiest**, then compute integral using easiest order of integration.

$$I = \iint_S y \, dA$$
, S bounded by $y = x - 2$, $x = y^2$.

 ${\bf Q2.}$ Compute by changing to polar coordinates.

$$I = \int_0^1 \int_y^{\sqrt{2-y^2}} (x+y) \, dx \, dy.$$