## 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.

$$
I=\iint_{S} y d A, \quad S \text { bounded by } \quad y=x-2, \quad x=y^{2} .
$$

Q2. Compute by changing to polar coordinates.

$$
I=\int_{0}^{1} \int_{y}^{\sqrt{2-y^{2}}}(x+y) d x d y
$$

