Name:

ID #:   **Serial #:**

1. Find the area of the region enclosed by $x = y^2$ and $y = x - 2$.

2. Find the area of the region enclosed by $y = x^2 - 2$ and $y = |x|$.

3. Evaluate the following integrals:

(a) $\displaystyle\int \frac{2}{\sqrt{x} + 4x\sqrt{x}}\,dx$

(b) $\displaystyle\int (secx + tanx)^2\,dx$

(c) $\displaystyle\int_{-1}^{-\frac{\sqrt{2}}{2}} \frac{1}{x\sqrt{4x^2 - 1}}\,dx$

Good luck
Khaled Al-Anezy