NAME:_____ ID:_____ Section: _____

**Exercise 1** (5 points)

Evaluate the integral $\displaystyle\int \frac{dx}{\sqrt{x - x^2}}$

**Exercise 2** (5 points)

Find the volume of the solid obtained by rotating the area enclosed by the

curves $y = x^2 + 1, \, y = 9 - x^2$ in the first quadrant about the line $x = -2$

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**Exercise 1** (5 points)

Evaluate the integral $\displaystyle\int \dfrac{dx}{x\sqrt{1-(\ln x)^2}}$

**Exercise 2** (5 points)
Find the volume of the solid obtained by rotating the area enclosed by the
curves $y = x^2 + 2,\ y = 10 - x^2$ in the first quadrant about the line $x = -2$