

No books, notes or graphing calculators. Turn off your cell phones. Good luck!

**Evaluate the following integrals:**

(5) 1.  $\int \frac{dt}{\sqrt{t^2 - 6t + 13}}$

(You may use the formula  $\int \sec x \, dx = \frac{1}{2} \ln \left| \frac{1 + \sin x}{1 - \sin x} \right| + C$ )

(5) 2.  $\int \frac{dt}{t^2 - 6t + 8}$

3. [1 Bonus point]  $\int \frac{dx}{1 + \cos x}$