

Present neatly on separate paper. Justify for full credit. No Calculators.

Name _____ Score _____ A (10 minutes) **x2**
Evaluate the given integral or explain why it does not exist.

1)

$$\int \frac{\cos \theta}{\sin^2 \theta - 6 \sin \theta + 12} d\theta$$

2)

$$\int_0^4 \frac{1}{(x-3)^2} dx$$

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Name _____ Score _____ F (10 minutes)
Evaluate the given integral or explain why it does not exist.

1)

$$\int_0^{1/2} \sin^{-1} x \, dx$$

2)

$$\int \frac{dx}{x(x^2 + x + 1)}$$