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

Name _____ Score _____ A (20 minutes) **x10**

Evaluate the given integral or explain why it doesn't exist.

1)

$$\int_0^4 \frac{x-1}{x^2-4x-5}\,dx$$

2)

$$\int e^{x+e^x}\,dx$$

3)

$$\int_0^{\pi} t\cos^2 t\,dt$$

4)

$$\int \frac{1}{(x-2)(x^2+4)}\,dx$$

Present neatly ~~on separate paper~~. Justify for full credit. No Calculators. **X10**

Name _____ Score _____ F (20 minutes)

Evaluate the given integral or explain why it does not exist.

1)

$$\int \frac{x-1}{x^2-4x+5}\,dx$$

2)

$$\int_1^4 \frac{e^{\sqrt{t}}}{\sqrt{t}}\,dt$$

3)

$$\int (x+\sin x)^2\,dx$$

4)

$$\int \frac{x+\arcsin x}{\sqrt{1-x^2}}\,dx$$