



## The Passion of Joan of Arc

October 14 & 16

Carl Theodor Dreyer's classic silent film with live medieval music

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### Practice Exam: Techniques of Integration

Time: 60 minutes

**Problem 1** (15 points) Compute the *exact* value of  $\int_0^{\pi} \sin^2(\theta) d\theta$

**Problem 2** (10 points) Compute the *exact* value of  $\int_1^3 \frac{\ln(2x)}{x^2} dx$

**Problem 3** (15 points) Find  $\int e^{-2t} \cos t dt$

**Problem 4** (10 points) Find  $\int \frac{3x^3 - 17x^2 + 36x - 35}{x^2 - 4x + 4} dx$

**Problem 5** (10 points) Find  $\int \tan^4(s) \sec^4(s) ds$

**Problem 6** (15 points) Find  $\int \arcsin(x - 1) dx$

**Problem 7** (10 points) Find  $\int \sqrt{9 - 4x^2} dx$

**Problem 8** (15 points) Find  $\int \frac{2x - 1}{x^2 - 2x + 10} dx$

If you would like to check your answers, click on [Answer](#).

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[Helmut Knaust](#)



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