Due Tuesday Jan 30, at the start of the recitation.

It is very important that you clearly show what you are doing and that what you write makes sense and follows proper mathematical form. A correct answer poorly explained will not get full marks.

1. Evaluate \( \int \frac{7x^3 - 12x^2 - 6x + 19}{(x - 2)(x + 3)(x^2 - 4x + 5)} \, dx. \)

To evaluate one of the integrals in the partial fractions decomposition, you might want to complete the square and substitute for \( x - 2. \)