



## Practice – 2

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Once you feel confident with integration by partial fractions when the denominator has one or more distinct irreducible quadratic factors, complete problems 1 and 2. Check your answers by going to the Solutions tab in Moodle.

**Instructions:** Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

1. Resolve  $\frac{-x^2 + 3x + 1}{2x^3 + 2x^2 + 2x}$  into two fractions.
2. Evaluate  $\int \frac{5x^2 - 6}{x^3 - 2x} dx$ .