

# Quiz #6

Please print your name:

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**Problem 1. (4 points)** Determine the shape (but not the exact numbers involved) of the partial fraction decompositions of:

(a)  $\frac{2x - 6}{x(x + 1)(x + 2)} =$

(b)  $\frac{x^6}{(x + 2)^2(x^2 + 1)} =$

**Problem 2. (6 points)** Evaluate the following indefinite integral:  $\int \frac{3x - 4}{x(x + 2)} dx$