4. [6 points] Use the partial fraction decomposition

$$\frac{9x^2 - 37x + 34}{(3 - 2x)(x - 2)^2} = \frac{4}{(x - 2)^2} - \frac{7}{x - 2} - \frac{5}{3 - 2x}$$

to evaluate the following indefinite integral, showing all of your work. You do not need to simplify your answer.

$$\int \frac{9x^2 - 37x + 34}{(3 - 2x)(x - 2)^2} \, dx$$

Answer: _____