

YOUR NAME: _____

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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Subtract and simplify

$$\frac{10x + 11}{2x^2 + 5x + 2} - \frac{4}{2x + 1}$$

2. Simplify the complex fraction

$$\frac{a^{-2} - b^{-3}}{a^{-1}b^{-2}}$$

3. Solve for x the equation

$$\frac{5}{x} - \frac{4}{x+2} = \frac{1}{5} + \frac{1}{5x}$$