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. Divide and simplify

$$\frac{4x - 2}{x^2 - 5x} \div \frac{2x^2 + 9x - 5}{x^2 - 25}$$

2. Add and simplify

$$\frac{1}{x + 1} + \frac{1}{x^2 - 1} - \frac{1}{x - 1}$$