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. Compute the limit

$$\lim_{x \to -3} \frac{x^2 - 4x - 21}{x^2 + 8x + 15} =$$

2. Compute the limit

$$\lim_{x \to 5} \frac{\sqrt{9 - x} - 2}{x - 5} =$$