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 following limit **showing all details**:

$$\lim_{x \to \infty} \frac{7x^3 - 5x^2}{21x^3 + 17}.$$