| LAST NAME | FIRST NAME | DATE |
|-----------|------------|------|
|           |            |      |

**1** (4 points). Evaluate the limit using the limit laws:

$$\lim_{u \to -2} \sqrt{u^4 + 3u + 6}$$

**2** (4 points). Evaluate the limit if it exists:

$$\lim_{t \to -3} \frac{t^2 - 9}{2t^2 + 7t + 3}$$

**3** (4 points). Evaluate the limit if it exists:

$$\lim_{u \to 2} \frac{\sqrt{4u + 1} - 3}{u - 2}$$

**4** (2 points). Evaluate the limit or explain why it does not exist:

$$\lim_{x \to 0^-} \left( \frac{1}{x} - \frac{1}{|x|} \right)$$

**5** (2 points). Evaluate the limit or explain why it does not exist:

$$\lim_{x \to 0^+} \left( \frac{1}{x} - \frac{1}{|x|} \right)$$

**6** (2 points). Evaluate the limit or explain why it does not exist:

$$\lim_{x \to 4} \frac{|4 - x|}{5x - 20}$$