

**MATH 101 Quiz#1, Time: 30 mins**

**Student's Name:** \_\_\_\_\_ **ID:** \_\_\_\_\_

**Evaluate the limit, if it exists. Justify each step by indicating the appropriate Limit Law(s).**

a). 
$$\lim_{x \rightarrow -1} \frac{2x^2 + 3x + 1}{x^2 - 2x - 3}$$

b). 
$$\lim_{h \rightarrow 0} \frac{(3+h)^{-1} - 3^{-1}}{h}$$

c). 
$$\lim_{x \rightarrow 1} \frac{x^2 - 2x + 1}{2x^2 + 2x - 4}$$