

Self Assessment [2 POINTS]

[a] What personal and/or study habits could you change to increase your likelihood of doing better on the next quiz?

DO HOMENORK RIGHT AFTER LECTURE (ORSAME DAY)
ASK QUESTIONS IN OFFICE HOURS

[b] Based on your work on the prerequisites review packet and your performance on this test, what prerequisite skills should you improve on?

SIMPLIFYING COMPLEX FRACTIONS	
WORKING WITH NEGATIVES, EXPONENTS, LOGARITHMS	
TRIG VALUES + I DENTITIES	
GRAPHS	

[2][a]
$$\lim_{x \to -1^{+}} \frac{x+3}{2} - \lim_{x \to -1^{+}} \frac{x+3}{2x-1}$$

$$= \lim_{x \to -1^{+}} \frac{x+3}{2x-1}$$

$$= \lim_{x \to -1^{+}} \frac{5-x}{2x-1}$$

$$= \lim_{x \to -1^{+}} \frac{5-x}{2x+2} \cdot \frac{2x-1}{2x-1}$$

$$= \lim_{x \to -1^{+}} \frac{5-x}{x+3} \cdot \frac{2x+2}{2x-1}$$

$$= \lim_{x \to -1^{+}} \frac{5-x}{x+3} \cdot \frac{2x+2}{x+2}$$

$$= \lim_{x \to -1^{+}} \frac{5-x}{x+3} \cdot \frac{5-x}{x+3}$$

$$= \lim_{x \to -1^{+}} \frac{$$

$$\begin{bmatrix} 6 \end{bmatrix}$$

$$\begin{vmatrix} b \\ -2 \end{vmatrix}$$

$$\begin{vmatrix} -2 \\ 1 \end{vmatrix}$$

[7]
$$\lim_{x \to 1} \cos^{-1} \frac{(x-1)^{x}}{(x-1)^{x}-2} = \lim_{x \to 1} \cos^{-1} \frac{x-1}{x-2} = \cos^{-1} 0 = \cos^{-1} 0$$