Bellwork 9/12

Evaluate without a calculator:

$$\lim_{x \to 3^{-}} \left(\frac{x}{x+3} \right) \text{ and } \lim_{x \to 3^{+}} \left(\frac{x}{x+3} \right)$$

$$\lim_{x \to \pi^{-}} \left[\frac{\cos(x)}{\sin(x)} \right] \text{ and } \lim_{x \to \pi^{+}} \left[\frac{\cos(x)}{\sin(x)} \right]$$

reset

Bellwork 9/12 - Solutions

$$\lim_{x\to 2} \left(\frac{x+3}{x^2+x-6} \right)$$



Exercise 1 - Solution

$$\lim_{x\to 2} \left(\frac{x+3}{x^2+x-6}\right) \ \boxed{\mathsf{DNE}}$$

$$\lim_{x \to 2^{-}} \left(\frac{x+3}{x^2 + x - 6} \right) = -\infty \qquad \lim_{x \to 2^{+}} \left(\frac{x+3}{x^2 + x - 6} \right) = \infty$$



$$\lim_{x\to 2} \left(\frac{x+3}{x^2+x-6} \right)$$



$$\lim_{x\to 2} \left(\frac{x+3}{x^2+x-6} \right)$$



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