Calculus AB

1-3

(Day 2 - Text)

Evaluating Limits Analytically

Find the limit of the trigonometric function.

*1) $\lim_{x \to \frac{\pi}{6}} \sin x$

*2) $\lim_{x \to 2} \csc \pi x$

Use the information to evaluate the limits. (pg 67)

38) $\lim_{x \to c} f(x) = \frac{3}{2}$

$\lim_{x \to c} g(x) = \frac{1}{2}$

a) $\lim_{x \to c} [4 f(x)] =$

b) $\lim_{x \to c} [f(x) + g(x)] =$

c) $\lim_{x \to c} [f(x)g(x)] =$

d) $\lim_{x \to c} \frac{f(x)}{g(x)} =$

Find the limit (if it exists). (Do these samples as needed by class)

56) $\lim_{x \to 3} \dfrac{\sqrt{x+1} - 2}{x - 3}$

60) $\lim_{x \to 0} \dfrac{\dfrac{1}{x+4} - \dfrac{1}{4}}{x}$

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