

Partial Review for Evaluating Limits Analytically

Determine the following limits analytically. Be sure to show all important steps.

1) $\lim_{x \rightarrow 2} \frac{x^2 - 4}{x^3 - 8}$

2) $\lim_{x \rightarrow 4} \frac{\sqrt{2x} - \sqrt{x+4}}{4-x}$

3) $\lim_{x \rightarrow 0} \frac{\frac{3}{4-x^2} - \frac{3}{4}}{\frac{1}{2-x} - \frac{1}{2}}$

4) $\lim_{x \rightarrow -2} \frac{3x^2 + 5x + 1}{x^2 - 4}$

5) $\lim_{x \rightarrow 0} \frac{x \sin x}{x + \sin x}$

Also, do More Limit Practice WS Section A #5, 11, 12, 13; Section B #71, 86; Section C #55, 56; Section D #49

Holt 2.3 #26; Holt 2.4 #26, 28, 29, 30