

AP Calculus - Section 1.3  
Solutions to even problems:

$$(28.) \lim_{x \rightarrow \pi} \tan x = \tan \pi = \boxed{0}$$

$$(30.) \lim_{x \rightarrow 1} \sin \frac{\pi x}{2} = \sin \frac{\pi}{2} = \boxed{1}$$

$$(32.) \lim_{x \rightarrow \pi} \cos 3x = \cos 3\pi = \boxed{-1}$$

$$(34.) \lim_{x \rightarrow \frac{5\pi}{3}} \cos x = \cos \frac{5\pi}{3} = \boxed{\frac{1}{2}}$$

$$(36.) \lim_{x \rightarrow 7} \sec \left( \frac{\pi x}{6} \right) = \sec \frac{7\pi}{6} = \frac{1}{\cos \frac{7\pi}{6}} = \frac{1}{-\frac{\sqrt{3}}{2}} = \boxed{-\frac{2}{\sqrt{3}} \text{ or } -\frac{2\sqrt{3}}{3}}$$

$$(50.) \lim_{x \rightarrow 2} \frac{2-x}{x^2-4} = \lim_{x \rightarrow 2} \frac{-1(x-2)}{(x+2)(x-2)} = \lim_{x \rightarrow 2} \frac{-1}{x+2} = \frac{-1}{2+2} = \boxed{-\frac{1}{4}}$$

$$(52.) \lim_{x \rightarrow 4} \frac{x^2-5x+4}{x^2-2x-8} = \lim_{x \rightarrow 4} \frac{(x-4)(x-1)}{(x+4)(x-2)} = \lim_{x \rightarrow 4} \frac{x-1}{x+2} = \frac{4-1}{4+2} = \frac{3}{6} = \boxed{\frac{1}{2}}$$

$$(54.) \lim_{x \rightarrow 0} \frac{(\sqrt{2+x} - \sqrt{2}) \cdot (\sqrt{2+x} + \sqrt{2})}{x \cdot (\sqrt{2+x} + \sqrt{2})} = \lim_{x \rightarrow 0} \frac{2+x-2}{x(\sqrt{2+x} + \sqrt{2})} = \lim_{x \rightarrow 0} \frac{x}{x(\sqrt{2+x} + \sqrt{2})}$$
$$= \lim_{x \rightarrow 0} \frac{1}{\sqrt{2+x} + \sqrt{2}} = \frac{1}{\sqrt{2+0} + \sqrt{2}} = \boxed{\frac{1}{2\sqrt{2}} \text{ or } \frac{\sqrt{2}}{4}}$$

$$(56.) \lim_{x \rightarrow 3} \frac{(\sqrt{x+1} - 2) \cdot (\sqrt{x+1} + 2)}{(x-3) \cdot (\sqrt{x+1} + 2)} = \lim_{x \rightarrow 3} \frac{x+1-4}{(x-3)(\sqrt{x+1} + 2)}$$
$$= \lim_{x \rightarrow 3} \frac{x-3}{(x-3)(\sqrt{x+1} + 2)} = \lim_{x \rightarrow 3} \frac{1}{\sqrt{x+1} + 2} = \frac{1}{\sqrt{3+1} + 2} = \boxed{\frac{1}{4}}$$

# Calculus High School

**Jianjun Gao**



**Calculus High School:**

## **Calculus High School** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Calculus High School**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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