

PRACTICE QUIZ 14

ADRIAN PĂCURAR

Time: 15 min

Time to beat: ? min

Problem 1. Compute the limit $\lim_{x \rightarrow \infty} \frac{\sin x}{x}$.

Problem 2. Compute $\lim_{x \rightarrow \infty} \frac{2 - \cos x}{x + 3}$.

Problem 3. Compute $\lim_{x \rightarrow \infty} \frac{\cos^2 x}{3 - 2x}$.

Problem 4. Compute the left-sided limit $\lim_{x \rightarrow 0^-} x^3 \cos\left(\frac{2}{x}\right)$.

Problem 5. Find $\lim_{x \rightarrow \infty} \frac{x^2(2 + \sin^2 x)}{x + 100}$.