

math worksheet

Generated Worksheet

Name: _____

Date: _____

Answer the following questions carefully.

1. Evaluate $\lim_{x \rightarrow 1} (2x^2 - 3x + 1)/(x - 1)$

2. Prove that the limit of $f(x) = x^3 \sin(\pi x)$ as x approaches zero is equal to zero

3. Find the numerical value of $\lim_{x \rightarrow \infty} \left(\frac{2x + 1}{3x - 5} \right)$

4. Solve for the limit: $\lim_{x \rightarrow 0+} (e^{x^2} \cdot \sin(x))$

5. Evaluate $\lim_{n \rightarrow \infty} \left(\frac{\sum_{i=1}^n i^2}{n^3} \right)$