Calculus 1

Quiz 1

Show work!

- Solve the inequality $|2x + 5| > 1$ and plot the region on the number line. Remember both sides.

- Give an equation for the line perpendicular to the line that goes through (0,1) and (3,2). This perpendicular line should go through (0,1).

- Simplify and then evaluate the limit: $\lim_{x \to 2} \frac{2(x^2-4)}{x-2} + 1$

- Use the identity $sin(A + B) = sin(A)cos(B) + cos(A)sin(B)$ to evaluate $sin(\frac{5\pi}{12})$.