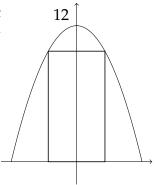
Math 19: Calculus

Quiz 7 — Wednesday, August 11

Name:

1. (*4 points*) Find the dimensions of the rectangle of largest area that has its base along the *x*-axis and its other two vertices on the parabola $y = 12 - x^2$ above the *x*-axis.



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2. (*3 points*) Use a linear approximation to estimate $\sqrt{8.94}$. Show your work.

3. (3 *points*) Compute $\lim_{x\to 0} \frac{\sin 3x}{\tan 7x}$.