Quiz

Name

1. Compute the derivative of the function $f(x) = (x^2 - 3)^{\frac{1}{2}}$.

2. You are given the function $f(x) = x^3 - 7x + 5$. Find the x-coordinates of the points on the graph with the property that the tangent line at the points is parallel to the line y = 2x - 11.

3. The limit $\lim_{\Delta x \to 0} \frac{(2+\Delta x)^7 - 2^7}{\Delta x}$ is the derivative of a certain function at a certain point. What is the function and what is the point? Using your answer to this question, find the value of the limit.