

Part I (due at the beginning of class Tuesday, September 8)

Think some more about question 10 that we were considering at the end of class Thursday and come prepared to discuss it: **True** or **False**. Consider a function $f(x)$ with the property that $\lim_{x \rightarrow a} f(x) = 0$. Now consider another function $g(x)$ also defined near a . Then $\lim_{x \rightarrow a} [f(x)g(x)] = 0$.

Part II: Problems (due at the beginning of class Tuesday, September 8)

1. For each of the following graphs, describe a possible scenario in which the given graph is the position function of a moving object/person (feel free to be creative!). With each answer, include how the features of the graph match the scenario you've described.

