Math 34A, UCSB Spring 2022

Name:	Perm Number:
TA	: Trevor \square Daniel \square Jeremy \square Day: T \square R \square Time: 8 \square 5 \square 6 \square 7 \square
	Quiz 9
	function $f(t) = 10e^{3t} - t^3$ describes the position (in meters) of an object at a time t (in seconds).

1 For the next problem, fill in the blank with the appropriate word, given that f''(0) = 90.

90 is the of the particle at t=0 seconds.

2) Using f(t) from the previous problem, compute f''(t).

f''(t) = m/s^2 .

3) Below is the graph of a funtion g(x) with four points on it, A, B, C, and D. Identify a point where g''(x) < 0, a point where g''(x) = 0, and a point where g''(x) > 0.



