Q1. If $f(t) = t^3 - 8t^2 + 24t$

When the particle slow down?

Q2.

16. At noon, ship A is 150 km west of ship B. Ship A is sailing east at 35 km/h and ship B is sailing north at 25 km/h. How fast is the distance between the ships changing at 4:00 PM?

Q2. Find the limit $\displaystyle\lim_{x \to 0} \frac{\sin 2x}{2x - \tan x}$