KFUPM Math101 Quiz#5 Sec.#32

Name: Serial#:

Q1. If $f(t) = \sin(\pi t / 2),\ 0 \le t \le 4$

When the particle slow down?

Q2. A particle is moving along the curve $y = \sqrt{-x}$. As it reaches the point (-4, 2), the *x*-coordinate is decreasing at a rate of 3 cm/s. How fast is the *y*-coordinate of the point changing at that instant?

Q2. Find the limit $\lim_{x \to 0} \frac{sin2x}{2x - tanx}$