Quiz: 34

Present neatly on separate paper. Justify for full credit. No Calculators.

1)

If $f(x) = \int_0^x (1 - t^2)\cos^2 t \, dt$, on what interval is f increasing?

Quiz: 34

Present neatly on separate paper. Justify for full credit. No Calculators.

Name _____ Score ____ F (5 minutes)

1)

If
$$f(x) = \int_0^{\sin x} \sqrt{1 + t^2} dt$$
 and $g(y) = \int_3^y f(x) dx$, find $g''(\pi/6)$.