

Name:

Class quiz 2

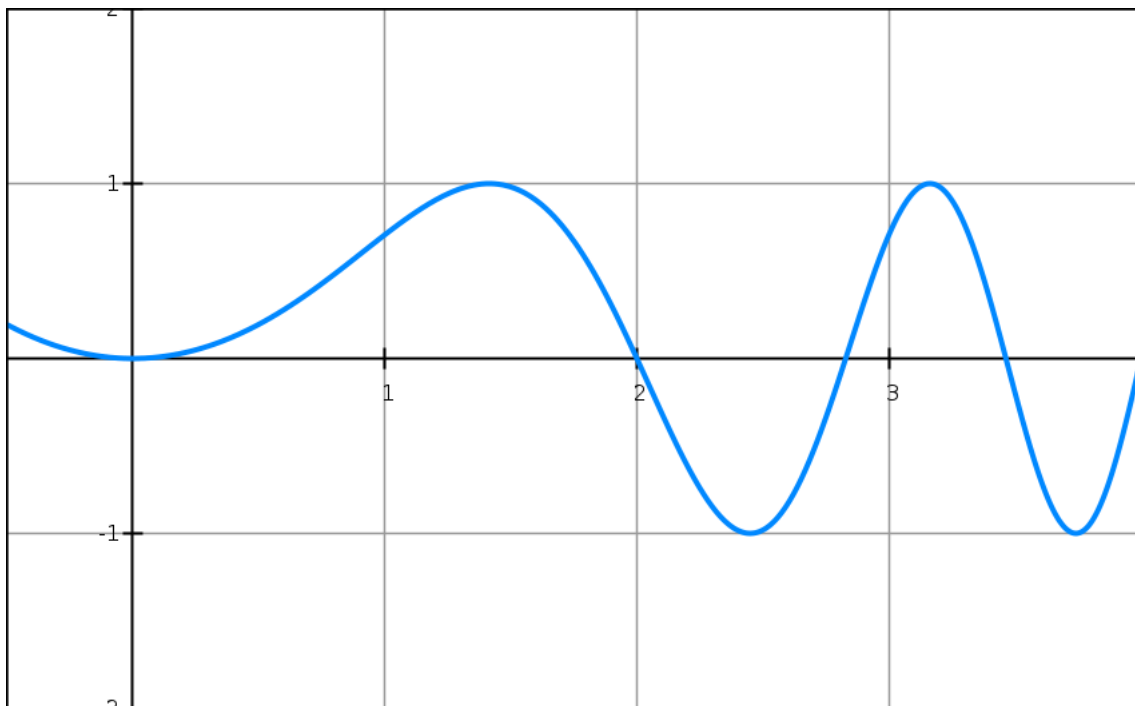
Feb 2, 2018

I) Evaluate the following integral:

a- $\int_0^{\frac{\pi}{2}} \cos\theta \cdot \cos(\sin\theta) d\theta$

b- $\int_1^2 (x+1)(x^2+2x)^3 dx$

II) Given the following graph of a function $f(x)$.



Define $g(x) = \int_0^x f(t)dt$ on the interval $[0,4]$.

a- At what value x does g have an absolute maximum on $[0,4]$.

b- At what value x does g have an absolute minimum on $[0,4]$.

c- On what interval is g increasing.