

# Deriv. Apps – 1200

■ A company has estimated its sales can be estimated by the formula:

$$S(t) = \frac{f(g(t))}{f(t)}$$

where  $t$  is measured in weeks and  $S(t)$  is measured in

thousands of units. Using the following table, the rate of change of sales (in thousands of units) in week 2:

$t$	$f(t)$	$f'(t)$	$g(t)$	$g'(t)$
2	-1	-3	4	$\pi$
4	$\pi$	-2	3	2

A)  $\frac{2}{3}$

B)  $3\pi + 2$

C)  $\pi$

D)  $5\pi$